CAACTGGTAC	TTGCCTGACT	CAGGGTCACG	AATGCTCCCA	TTTGCCAAGA	AAGCGCCACA	15240
GAGATAGGCA	CGACCTGCTT	CCTCATCCGA	TAAAATCGCC	TCATCAATAC	CTGTTTCCAG	15300
GCCAAAGAAA	GAGTCTGCCA	AGTGCAAATC	ACTTAACAAA	TCCTGCACCT	TTTCATCTGT	15360
AAAAACGGTA	TAGACGCGAT	TCTTGCGAAG	ATTGCTCCGT	TGGTGGTGAC	GAATTTCAGA	15420
TTTGATTTCA	TAGAGATGGA	GAAAGGACTC	ATAGAGGTGA	CGGGCCAGTT	TGGCATTTTC	15480
TGTCACAACT	GACAAAGTCA	AGCCCGAAGT	CGAGAGACCG	ATGCTACCAG	ACATTTTGAT	15540
AATGGCAGAT	AATTCATGCC	AGCTCAGATG	GTGTTGGCCC	AGGATTTCTT	CTTTTACTGC	15600
TACTGTGAAA	CTCATTTTTT	CACCTGTATA	ATGCGCATCA	ACTCGTCCAC	AATCAAATCT	15660
CCATCGTGGA	AGGCACCGCC	ATTTTCCAGA	CGAAGGAAGT	TAGATGAAAT	CACGCGCGAA	15720
ACTTGCTTAC	AAAGACCTAC	AAAATCGTGT	TCCACTTGCA	CTAAGTATTC	ATCAAAACGG	15780
TTGGAATTCA	TGTATTCCTG	AGGCACTTTT	TCAATATTCA	CCAAGACAGT	GTCGATAAAA	15840
GGGCGACCAA	GGTGACGATG	CAAGACTTCC	ACGTGGTCGC	TATCTGTAAA	GTGTTCCGTC	15900
TCCCCACGTT	GGGTCATGAT	ATTGCAGACA	TAGGCAATTT	CTGCCTTGGT	TTCCAAAAGA	15960
GCCCGCCCAA	TTTCCTTAAT	CACGATATTG	GGCAAAATAG	AGGTAAAGAG	GGAACCTGGC	16020
CCTAGGACAA	TCATGTCACT	TTCAAGGATG	GTCTGCACTA	CTCGACGGCT	GGCCAGAGGC	16080
GTATCATCGT	TTAGGGCATT	GGTCACATAG	ACATTGTCAA	TTATGCCTCG	ATGGTCTACA	16140
ATATGACTCT	CTCCAGCCAC	TTCTGTCCCA	TCCTGAAAGA	CTGCATGAAG	GGTCAAAGGA	16200
TGGTCACTGG	AAGGATAAAT	TTTCCCTGTT	GTATGGAAAA	ATTTGCTCAA	TAACTGCATG	16260
GCATTATAGG	TTGAACCCTG	CATTTCTGAC	AAGCCAGCAA	TGATGAGATT	TCCCAATGGA	16320
TGGCCAGCAA	AGGCTCCGGC	ATCCTCAGAG	AACCGATACT	GAAAGACCTT	СТСАТААААС	16380
TTAGGCATAT	CCGACATGGC	CACAAGGACA	TTACGAAGAT	CACCTGGCGG	TGTCAACTGT	16440
TGCATATTTT	TTCGGAGTTC	ACCTGAAGAA	CCACCATCAT	CTGCCACCGT	CACGATAGCT	16500
GCGATTTCCA	CATCTTTTTC	CCGCAGACTT	TTTAGAATGA	CGGGACTTCC	AGTCCCTCCA	16560
CCAATCACCG	TTATCTTTGG	TTTTCTCATG	AACGGTTTAC	CGTTTCCTTT	CTGCGGTCTT	16620
TGTCGCGATG	CCCTTCATTA	ACAGACCAAT	TCTTGGATAA	GTCCTGCGCC	AAGCGTTTAG	16680
CAAATGCCAC	ACTACGGTGT	TGTCCACCCG	TACATCCCAT	GGCAATGGTC	AAAACGGACT	16740
TACCTTCCTT	TTGGTAACTT	GGCAGAATCG	GCTCAATCAA	GGCCAATAAA	TGTTGATAAA	16800
AGTCTTCTGA	CTCAGGATGG	TTCATGACAT	AATCATAAAC	AGGTTCATCC	ACACCCGTTT	16860
GGTTTCTCAG	TTCTGGTAAA	TAATAGGGAT	TTGGCAAGAA	ACGGACATCA	AAGACCAAGT	16920

			500			
					CGGAAAGACT	16980
GGGCTTGTTC	TTGGTCTGAA	AACTGCTCTG	CAAGGGTTTT	GCGCAgCTCA	CGTGGAGTGA	17040
GTTCAGTCGT	ATCCACCACA	TTTTGGCTCA	TATTTTTCAA	AGGTGCCAAG	AGTTCACGTT	17100
CCAACTTGAT	TCCATCTAAA	ATACGACCGT	CTGCTGCTAG	TGGGTGACTC	CGTCTGGTTT	17160
CCTTGTAACG	AGCGACCAAT	TCCTTATCAG	CCGCATCCAA	AAAGAGGATT	TTGAAATCCA	17220
AACCATCTTG	ATTTTCCAAC	TCATCCAAAA	CAGCTTGAAT	CTCTGAAAAG	AAAGAACGGC	17280
TACGCATATC	CACTACCAAG	GCCAACTTAG	GATTGTCTTC	CTTAATTTCA	ACCAGCTGCA	17340
AAAACTTAGG	CAAGAGAGCT	GGCGGCATAT	TATCAATGGT	GAAATAACCT	AGATCCTCGA	17400
AGGACTGAAT	GGCTACAGTT	TTCCCTGCGC	CACTCATCCC	TGTCACAATC	ACCAAGTGAA	17460
GTTGTTTCTT	TGTCATCTTT	TTCTCCTTAT	ATCAAAAGAA	GTTTGGCAAC	ACCAAACTTC	17520
AACTAGCTTA	TCCAATCTCT	GCGATGACTT	CAATTTCGAC	TTTTACATCA	CGAGGAAGAC	17580
GAGCTACCTC	CACAGCTGAA	CGAGCTGGGA	ATTCCTCTTT	GAAGGCCGTT	TGGTAAACCT	17640
CATTAAAAGG	AACAAAGTCG	TTCATATCGC	TCAAGAAGCA	AGTTGTTTTG	ACAACATGGT	17700
CAAAGTCTGT	TCCTGCTTCT	GCCAAAATAG	CACCGATGTT	TTTCAAGACT	TGCTCTGTCT	17760
GTTCTTGGAT	ATTCTCTCCT	ACAATTTCCC	CAGTTTCAGG	GGATAGGGGA	ACTTGACCGC	17820
TAGCAAACAA	AAGGTTGCCA	ACGATTTTTC	CTTGAACATA	GGGTCCGATA	GCCTTTGGGG	17880
CCTTATCTGT	ATGAATTGTT	TTTGCCATTT	TCTTTTCCTC	ACAATTTTTC	TAAGATTGCA	17940
TCCCAAGCCT	CATCCATCCC	TGCCTTACTG	ACAGATGAAA	AGAGGATGAA	ATCGTCACTC	18000
GGGTCAAAGT	TTAATTTCTT	TTTGATTGCT	GATTCATGCT	TGTTCCATTT	ACCACGAGGA	18060
ATCTTGTCCG	CCTTGGTCGC	CACAATGATG	ACTGGAATCT	CATAATACTT	GAGAAATTCG	18120
TACATCTGCA	CATCATCTGC	TGACGGGTCA	TGACGAAGGT	CAACTAGACT	GACAACCGCA	18180
CGGAGATTTT	CCCGAGTCGT	TAAGTACTCC	TCAATCATGC	ACCCCCACTT	TTCACGTTCC	18240
TTTTTAGAAA	CACGAGCATA	GCCATAACCA	GGCACATCCA	CAAAGCGCAT	CTTGTCATCA	18300
ATGTTAAAAA	AGTTCAGGAG	CTGGGTTTTA	CCAGGTTTTC	CTGATGTACG	GGCGAGATTC	18360
TTACGGTTCA	ACATAGTGTT	GATAAAGCTG	GATTTACCAA	CATTTGAACG	CCCTGCTAGG	18420
GCAATCTCTG	GCAGTTCATC	CTGCGGATAG	TGGGACTTAT	TAGCTGCACT	GAGCAAGATT	18480
TCAGCATTGT	GTGTATTAAG	TTCCATAGTC	ACCTCTAGGC	TGTTTCTAGG	ATCGGTTTAT	18540
CCGTTCCATC	TACAGTTTCT	TTAGTGATGC	GAACCAATTT	CACATTTTCC	TGACTCGGCA	18600
CCTCAAACAT	GACATCTAGC	ATGGTTTCTT	CGATGATGGA	GCGAAGTCCA	CGCGCCCCTG	18660
TCTTCCGTTC	GATTGCTTTA	TTAGCAATCT	CTTGAAGGGC	TTCGTCGTCA	AATTCCAACT	18720

CAACATCATC	ATAAGAAAGC	AAGGTTTGGT	ATTGTTTCAC	CAAGGCATTT	CTTGGCTCTT	18780
TCAAGATGCG	AACCAAGTCA	TCAACGGTCA	ATTGCTCAAG	AGCCGCAAAA	ACAGGCAAGC	18840
GTCCAATCAA	CTCAGGGATA	ATACCAAATT	TTTGAATGTC	TTCAGCGATG	ATTTCTTGCA	18900
TGTATGAGCT	GTTTTCGTCA	ATCGCCTTAT	TATTTTGACC	AAATCCGATG	ACTTTTTCAC	18960
CCAGACGTTG	TTTGACAATT	TCTTCAATAC	CATCAAAAGC	ACCACCCACG	ATGAAGAGGA	19020
TATTTTTTGT	ATCCACTTGA	ATCATCTCTT	GTTGTGGATG	TTTGCGTCCA	CCTTGAGGCG	19080
GTACGCTAGC	AACAGTTCCC	ТСААТААТСТ	TGAGAAGGGC	TTGTTGCACC	CCTTCACCAG	19140
AAACATCACG	TGTGATAGAC	ACATTCTCAC	TCTTCTTGGC	AATCTTGTCA	ATTTCATCCA	19200
CATAGATAAT	GCCACGCTCT	GCACGTTCGA	TGTTAAAGTC	AGCAACCTGC	AAGAGTTTGA	19260
GGAGGATATT	TTCCACATCC	TCACCCACAT	AACCAGCCTC	CGTCAGAGCT	GTCGCATCCG	19320
CAATAGCAAA	AGGTACATTC	AAGCTCTTAG	CCAAGGTCTG	GGCAAGGAAA	GTTTTCCCTG	19380
AACCAGTTGG	GCCAATCATC	AAAATGTTTG	ACTTCTGCAA	ATCCACATCT	TCTGACTCTT	19440
CGCGTGTATC	GTGGAAATTG	ATGCGTTTGT	AGTGGTTATA	AACCGCCACT	GCCAAGGCAC	19500
GCTTGGCACG	ATCTTGACCA	ATTACATAGT	GGTTCAAGAT	ATGGAGGAGT	TCAATTGGTT	19560
TTGGCACCTC	AGACAAGTCT	GCCAAGACTT	CCTCAACCAA	TTCTTCTCGA	ATGATTTCCT	19620
GAGCTAACTC	CACGCATTCA	TTACAAATAA	AAGCATTGTT	GCCAGCAATT	ATTTTTTGTA	19680
CTTCTTCTTG	GTTTTTGCCA	CAAAATGAGC	AATAAACCAT	CATATCATTT	TTTCTATTTG	19740
TAGACATGAT	TTCCTTCCAT	TCTATACTGT	CATTCTATCT	AAAATAAGGT	CATGTAAAAA	19800
GCATGAATAC	TATTGACCAG	ATTGGTAAAG	GCATTTAACC	AAAGGAGGAT	AGAAAGCCCG	19860
TAACGCTTTT	TACGAAAAGC	TTGTGCTCCT	GCCAGAAAGC	AGATGAAACA	CAGAAAAGCC	19920
GTGAATAGAC	САААТАААСТ	CCGTTCCATT	AGACTTCCTT	TCTCTTGCGG	TATTGGATGG	19980
TAAAATCATA	AGGATTCTTC	TCATCTTTGG	CGTAAAATTT	GCTTGAAACT	GTCTCAAAAA	20040
GAGACAAGTC	AAGTTCTTCA	GGGAAATAGG	TATCTCCTTC	CACCCGAGCA	TGAATGTGAG	20100
TGACAATCAC	TTCATCAAGG	TAAGGTTCAA	AAGCCTGAAA	AATTTGCTTC	CCACCGATAA	20160
TGTAGAGATT	CTTTTCTTGA	GCCTGATACC	AGTCAAGAAC	AGACTGGACG	TCCTGAAAAG	20220
TAGCAACCCC	ATCTATCTTT	TCTTCCGGAT	TACGCGTCAA	AATCAAGGTT	TCCCGTTTTG	20280
GAAGCAAGCG	ACGCCCCATC	CCATCAAAGG	TCACACGCCC	CATCAAGATA	GCATGATTCA	20340
GAGTTGTTTC	TTTAAAGTGC	TGCAATTCTG	CTGGCAAATG	CCAAGGCAGA	CGATTTTCCT	20400
TACCAATCAC	ACCCTCTTCA	TCCTGGGCCC	AAATAGCTAC	GATTTTCTTA	GTCATGCTTC	20460

			502			
CATCCTTTTC	ACTGATAGTA	CTATTTTATC	AAAAACTCA	AAAAAGACT	GGTTTGGAAT	20520
AGCTTACAAA	ATAGAAAAA	TCTGTAAGAA	ATTTCCTACA	GATTTATCTA	TGTTTCCTTA	20580
TTTCTTACAA	ACCAGGTGCT	TGTCCAAGTT	CGGCTGCAAG	CATCCAAATT	GTTTTATCTG	20640
TTTCAGTTTT	AGCGCCTGCA	AAGATACCGT	TTGTCACATC	GTCACCTTCT	TCATCAGTGA	20700
CATCCAAACC	TTTTTGGAAA	AGTTCTGACA	AGTAACGGTA	GATAACAAGA	ACACGTTCCA	20760
AGCTTTCTTC	AACATTACGG	TATTCACCAG	CTTCTTCTTC	GATTTCACTA	TTTTGAAGGA	20820
ACTCTGTCAA	TGTAGAGAAT	GGGCTTCCAC	CGAGTGTAAT	CAAGCGTTCA	CTGATTTCAT	20880
CCAATTGACC	GTCAAGAGCT	TCCATGTACT	CATCCATTTT	TGGATGCCAT	ACAAGGAAAC	20940
CACGACCATG	CATATACCAG	TGCACTTGGT	GCAAAGCAAC	GTGAGCTACA	TACAAATCAG	21000
CAACAGCTTG	GTTCAAGACT	TCCTTTGTTT	TTGCCAATGC			21040

(2) INFORMATION FOR SEQ ID NO: 56:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2387 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

ATTCTTAATA CGATTAAAAG	GCTTATTACT	AAAAGAAAAT	TTCAGTTAGA	TGAACTAAAC	60
TTGCTCGTCA AATCCCGATT	TAACGAGATG	TTTGGGGAAA	ATAAAATATT	TGAAAGCATT	120
GATAACTTAT TTGATATTAT	AGATGGTGAT	AGGGGCAAAA	ATTATCCTAA	ATCAGATGAG	180
TTGTTTAGTG AGGAGTACTG	TTTATTTTA	AATACAAAGA	ATGTTACTAA	AAACGGATTT	240
TCATTCGATA CAAAGCAATT	TATCACTAAA	ACAAAGGATA	AATTACTTCG	AAAAGGCAAA	300
CTTGAGCGTT ATGATATAGT	CTTGACAACA	AGAGGTACTG	TTGGAAATGT	AGCGTACTAC	360
GATGAATTAA TAAAATATAA	ACATTTACGT	ATAAATTCAG	GTATGGTAAT	ATTACGTCCC	420
AAGACACCAA ATCTAAATCA	GAAATTTATT	ATCCATGTTT	TAAGGAATAA	TAATTATAGT	480
CGAGTGATAT CAGGAAGTGC	TCAGCCTCAG	TTACCAATTA	CAAAATTAAA	AAAAATACTT	540
CTCCCCCTCC CCCCACTAGC	CCTCCAAAAT	GAGTTCGCAG	ACTTTGTAGT	CCAGGTCGAC	600
AAATCACAAT TGGCAATCCA	AAAATCTCTG	GAAGAACTTG	AAACTTTGAA	GAAATCTCTG	660
ATGCAGGAGT ATTTTGGCTG	ATATTCTGCC	ATTGTAATTA	CGGTAATGAT	TTGTTATAAT	720
ACTTCAAAGG AGGAAATCAG	ATGGTAGTAA	AAACAAGAAA	ACAAGGAAAT	TCAATCACCA	780
TTACGATTCC AAGTGAATTT	AATATTCCAA	GTGGTGTTAA	ATACGAAGCG	AAATTGTTAC	840

CAAGTGGTGA	GATTATCTTT	ACTCCTGAAG	AATTGGGGCA	GCAGGTTTCT	TATGTATCTG	900
ATGATGCCTT	TGACTTAAAT	TTAGATAAAA	TATTTGACGA	ATACGACGAT	GTTTTCAAAG	960
CTTTGGTGGA	AAAATGACAA	TCTATTTGAC	AGAAAAGCAA	ATTGAAAAAA	TAAATGCTTT	1020
AGCAATTCAA	CGGTATTCTC	CAAATGAGAA	AATTCAAACA	GTTAGTCCTT	CTGCCTTAAA	1080
TATGATTGTG	AACTTACCAG	AACAATTTGT	CTTTGGGAAG	CCTCTTTATC	CAACAATTTT	1140
TGATAAAGCA	ACGATACTAT	TTGTCCAATT	GATAAAGAAG	CATGTTTTTG	CTAATGCTAA	1200
TAAAAGAACT	GCTTTCTTCG	TTTTGGTCAA	ATTTTTACAA	TTAAACGGCT	ATCGTTTTTC	1260
TGTAACGGTA	GAAGAAGCAG	TAAAAATGTG	TGTAACCATC	GCAGTAGAAG	CTTTAACTGA	1320
TGAAAAAATG	ACAAGCTACT	CCAAATGGAT	TTCTGAACAT	TCTGTTAGAG	AAAAGGTCAA	1380
AAAGTAACCT	AGTATGCTGG	ATTTGAATGA	GCACAAGAAA	ATAAATGAAC	AGACAATATT	1440
AGAATTCTGT	AATGCAGAAA	CTGATATTGT	CTCTTTTTAT	TGATGAATAA	GAAAGTGAGA	1500
AATTATGGAA	TCAAAAGTTA	CAATTATCAT	GCAAGAAATG	TTACCTCTTT	TAAATAATGA	1560
ACAATTACTA	GCGTTGAGAG	AGAGTTTAGA	ACATCATCTA	GTAGACGGAA	AAAAGCAGCA	1620
GAAGTATTCG	AATAATAACC	TGTTGCAACT	ATTTATTACC	GCCAAGCAGG	TAGAGGGCTG	1680
TAGCTCAAAA	ACAATTCGTT	ATTATCAGAG	GACGATTGAA	AACTTGTTTA	ATGCTATTAA	1740
AGAGTCTGTG	ACACAACTCA	CAACAGATGA	TTTAAGGAGT	TATTTAGCAA	ATTACCAGTC	1800
TGAAAAGGAT	TGTAGTAAGG	CAAATTTAGA	CAATATTAGG	CGTATATTGT	CTTCTTTTTT	1860
TGCTTGGCTT	GAGCAAGAGG	ATATATCATT	AAAATTCCCA	TTCGACGGAT	ACAGAAAATT	1920
AAGACTGAGC	AAAATGTGAA	GGAAACTTAT	ACTGATGAAC	ATTTGGAAAT	TATGCGTGAT	1980
AACTGTGAAA	ATTTGAGAGA	TTTGGCAATA	ATAGACCTAC	TAGCATCGAC	AGGTATGCGT	2040
GTAGGGGAGC	TTGTACAGTT	GAATCGTTCA	GATATTGATT	TTGAAAACAG	AGAGTGTGTT	2100
GTCTTTGGTA	AAGGAAAGAA	GGAGAGACCA	GTATATTTTG	ACGCTCGTAC	GAAAATTCAT	2160
TTAAGAAATT	ATCTTAACGA	CAGAAAAGAT	AGTCACCCTG	CTCTTTTTGT	AACGCTAGTT	2220
GGAAAAGTCC	AGAGGCTTGG	AATTGCTGGT	GTAGAGATTC	GCTTAAGAAA	GTTAGGAGAC	2280
AAACTCGGCA	TACAAAAGGT	TCACCCACAT	AAGTTCAGAA	GAACTTTAGC	GACTAAGGCA	2340
ATTGATAAAG	GTATGCCTAT	CGAACAAGTC	CAAAAACTGC	TAGGTCA		2387

⁽²⁾ INFORMATION FOR SEQ ID NO: 57:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 10669 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

504

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

	_					
ATATTAAAGC	GACTTTCTGT	GCGCTAGGGA	AAAATGTTCC	TGGGAATGAG	GACTTGGTGA	60
AGAGGATAAA	ATCTGAAGGT	CATGTTGTTG	GAAACCATAG	CTGGAGCCAT	CCGATTCTCT	120
CGCAACTCTC	TCTTGATGAA	GCTAAAAAGC	AGATTACTGA	TACTGAGGAT	GTGCTAACTA	180
AAGTGCTGGG	TTCTAGTTCT	AAACTCATGC	GTCCACCTTA	TGGTGCTATT	ACAGATGATA	240
TTCGCAATAG	CTTGGATTTG	AGCTTTATCA	TGTGGGATGT	GGATAGTCTG	GACTGGAAGA	300
GTAAAAATGA	AGCATCTATT	TTGACAGAAA	TTCAGTATCA	AGTAGCTAAT	GGCTCTATCG	360
TTTTGATGCA	TGATATTCAC	AGTCCGACAG	TCAATGCCTT	GCCAAGGGTC	ATTGAGTATT	420
TGAAAAATCA	AGGTTATACC	TTTGTGACCA	TACCAGAGAT	GCTCAATACT	CGCCTAAAAG	480
CTCATGAGCT	GTACTATAGT	CGTGATGAAT	AAGCAAGAAA	AAATAGGTCT	GTTAGATATT	540
TGACAGACTT	ATTTTTTACA	GAATATAGTA	СТАСТТАААА	AATGTTTTAT	GCTATAATTG	600
ATGAATAAAA	TAGAAGGAGA	AGCATATGAA	TACCTATCAA	TTAAATAATG	GAGTAGAAAT	660
TCCAGTATTG	GGATTTGGAA	CTTTTAAGGC	TAAGGATGGA	GAAGAAGCCT	ATCGTGCAGT	720
GTTAGAAGCC	TTGAAGGCTG	GTTATCGTCA	TATTGATACG	GCGGCGATTT	ATCAGAATGA	780
AGAAAGTGTT	GGTCAAGCAA	TCAAAGATAG	CGGAGTTCCA	CGTGAAGAAA	TGTTCGTAAC	840
TACCAAGCTT	TGGAATAGTC	AGCAAACCTA	TGAGCAAACT	CGTCAAGCTT	TGGAAAAATC	900
TATAGAAAAA	CTGGGCTTGG	ATTATTTGGA	TTTGTATTTG	ATTCATTGGC	CGAACCCAAA	960
ACCGCTCAGA	GAAAATGACG	CATGGAAAAC	TCGCAATGCG	GAAGTTTGGA	GAGCGATGGA	1020
AGACCTCTAT	CAAGAAGGGA	AAATCCGTGC	TATCGGCGTT	AGCAATTTTC	TTCCCCATCA	1080
TTTGGATGCC	TTGCTTGAAA	CTGCAACTAT	CGTTCCTGCG	GTCAATCAAG	TTCGCTTGGC	1140
GCCAGGTGTG	TATCAAGATC	AAGTCGTAGC	TTACTGTCGT	GAAAAGGGAA	TTTTATTGGA	1200
AGCTTGGGGG	CCTTTTGGAC	AAGGAGAACT	GTTTGATAGC	AAGCAAGTCC	AAGAAATAGC	1260
AGCAAATCAC	GGAAAATCGG	TTGCTCAGAT	AGCCTTGGCC	TGGAGCTTGG	CAGAAGGATT	1320
TTTACCACTT	CCAAAATCTG	TCACAACCTC	TCGTATTCAA	GCTAATCTTG	ATTGCTTTGG	1380
AATTGAACTG	AGTCATGAGG	AGAGAGAAAC	CTTAAAAAACG	ATTGCTGTTC	AATCGGGTGC	1440
TCCACGAGTT	GATGATGTGG	ATTTCTAGAA	ААТСАТАААА	AGAATTGTAC	ATTATTCTAA	1500
TTTTTGATAT	AATAGTCAGC	AGGAAAGAAA	GTCTTATGGC	GTTCTTCAAG	CGAGCTTGGG	1560
ATAGTGGGAG	CCAAGTAGGG	CAAAATAAAG	GGCTGGCGCT	TTCTGTAGTA	TTTTCAAAAA	1620

CAATGAAGTA	ATAAATTAGG	GTGGAACCGC	GTTTCTGACG	CCCCTAGGTT	AAATC AA CCT	1680
AGGATTGTCA	GATGTGGTTC	TTTTGCTTAT	TCAGTCTATT	GTGTGAAAGA	AAGGAGAGCC	1740
GTGGACAACC	TTTATCTTGT	AAAAGACGAT	AGTCAACTAG	CTACATTTCG	TGATTTTGTA	1800
GTAAGAAATA	CTGAAAAGTT	GAAAGATTAT	CAATCTTTTT	TAAAGAATGA	ACTTGCAGTC	1860
rgtgatttac	CGCAAGCTGT	TATTTGGTCA	GATTTTAATG	CTGCTACACA	GATTATTAGG	1920
GAAAGTGCTG	TTCCAACCTA	TACAAATAAT	AGACGAGTGG	TTATGACGCC	TGATTTAGCT	1980
GTTTGGAAAG	AATTGTATTT	GTATCAGTTG	ATGGACTACG	AGTGTTCTGA	GCAAACTCAA	2040
GCAATAGAAA	GTCACTATCA	TTCTTTATCT	GAAAATTTCC	TCTTACAGAT	TGTAGGACAT	2100
GAGTTAGCTC	ATTGGTCGGA	CATTTTTTAG	ATGATTTTGA	TGGTTATGAC	TCTTATATCT	2160
GTTCGAAGA	GGGGATGGTT	GAATATATTA	GTCGCAAGTA	TTTCTTGACA	GAAGAGGAAT	2220
TTCAAGCGGA	AAAAATTTGT	AATCAATCTC	TCGTAGAACT	TTTTCAGAAG	AAGTATAGTT	2280
GCATTCATT	GAATGATTTT	GGTTCTTCGA	CTTATGATAA	GAACTATGCA	AGTATTTTTT	2340
ATGAATACTG	GCGCAGCTTT	TTGACAGTAG	ATAAGTTGGT	AGAAAATTTA	GGTAGTGTAC	2400
AGCGGTCTT	AGATTCTTAT	CATTTATGGG	CAAATACAGA	AAAAACTTTT	CCCTTGTTAG	2460
ATTGGTTTGT	TCAGCAGAAA	TTAATTGAAA	AAGAAATATA	AAAACTAAAG	GAGTAAACAA	2520
GTCTAAGAA	ATTAACATTT	CACTGCATCA	GTGGCAGAGA	CCTCCTTACA	GTCGGGCTGC	2580
CCACGCTCA	GCACTAGAGT	GCCTGAGCTA	GACGCAGTAC	TAACTCGTCT	TGCCTCGTAT	2640
SATCGACGAG	GCAGACTCGT	GTCGCAAGTA	TTTTTTTTT	ATTAAGGAGT	ATTCAATGTC	2700
AAGAAATTA	ACATTTCACT	GCGTCAGTGG	CAGAAACCTC	CTTACAGTCG	GACTGCCCTA	2760
GCTCAGCAC	TAGAGTGCCT	GAGCTAGACG	CAGTACTAAC	TCGTCTTGCC	TCGTATAATC	2820
ACGAGGCAG	ACTCGTGTCG	CAAGAAATTA	TTTTTTATTA	AGGAGTATTC	AATGTCTAAG	2880
AATTAACAT	TTCAAGAAAT	TATTTTGACT	TTGCAACAAT	TTTGGAATGA	CCAAGATTGT	2940
TGCTTATGC	AGGCTTATGA	TAATGAAAAA	GGTGCGGGGA	CAATGAGTCC	TTACACTTTC	3000
TTCGTGCTA	TCGGACCTGA	GCCATGGAAT	GCAGCTTATG	TAGAGCCATC	ACGTCGTCCT	3060
CTGACGGTC	GTTATGGGGA	AAACCCTAAC	CGTCTCTACC	AACACCACCA	ATTCCAGGTG	3120
TCATGAAGC	CTTCTCCATC	AAATATCCAA	GAACTTTACC	TTGAGTCTTT	GGAAAAATTG	3180
GAATCAATC	CTTTGGAGCA	CGATATTCGT	TTTGTTGAGG	ACAACTGGGA	AAACCCATCA	3240
CTGGTTCAG	CTGGTCTTGG	TTGGGAAGTT	TGGCTTGACG	GAATGGAAAT	CACTCAGTTC	3300
CTTATTTCC	AACAAGTCGG	TGGATTGGCA	ACTGGCCCTG	TGACTGCGGA	AGTTACCTAT	3360

506 GGTTTGGAGC GCTTGGCTTC TTACATTCAA GAAGTAGACT CTGTCTATGA TATCGAGTGG 3420 GCTGATGGTG TAAAATACGG AGAAATCTTT ATCCAGCCTG AGTATGAGCA CTCAAAATAT 3480 TCATTTGAAA TTTCGGACCA AGAAATGTTG CTTGAAAACT TTGATAAGTT TGAAAAAGAA 3540 GCTGGTCGTG CATTAGAAGA AGGCTTGGTA CACCCTGCCT ATGACTATGT TCTCAAATGT 3600 TCACATACCT TTAATCTGCT TGACGCGCGT GGTGCCGTAT CTGTAACAGA GCGTGCAGGC 3660 TATATCGCTC GTATCCGTAA CTTGGCCCGT GTCGTAGCCA AAACCTTTGT CGCAGAACGC 3720 AAACGCCTAG GCTACCCACT TTTGGATGAA GAAACAAGAG CTAAACTCCT AGCAGAAGAC 3780 GCAGAATAAA GAGAGTGACA AATTACGAAA ATGGGCGAAC AGAGTGAGCC CTGAGCCAGT 3840 TGCCGCAGTG ATGAAGGTAT CCTTAGTGAA ACTAAGGATA CTAGGCAAAA TTGGAGACTT 3900 TTGGCTCCAA TTTTAGCAAT GAAACAACGA AGTTGGTTGC TTGCGTGCCA ATCACATAAG 3960 GCAAACTGGA AAATAAAAAG ATACTTTTCG GAGAAAAAAC ATGACAAAAA ACTTATTAGT 4020 AGAACTCGGT CTTGAAGAAT TACCAGCCTA TGTTGTTACG CCAAGTGAAA AACAACTAGG 4080 CGAAAAAATG GCAGCCTTCC TCAAGGGAAA ACGCCTGTCT TTTGAAGCCA TTCAAACTTT 4140 CTCAACACCA CGTCGTTTGG CTGTTCGTGT AACTGGTCTT GCAGACAAAC AGTCTGATTT 4200 AACAGAAGAT TTCAAGGGTC CAGCAAAGAA AATTGCCTTA GATAGTGATG GAAACTTCAC 4260 CAAAGCAGCT CAAGGATTTG TCCGTGGGAA AGGTTTGACT GTTGAAGATA TCGAATTCCG 4320 TGAAATCAAG GGTGAAGAAT ATGTCTATGT CACTAAGGAA GAAATTGGTC AAGCAGTTGA 4380 AGCCATTGTT CCAGGCATTG TGGATGTCTT GAAGTCACTG ACTTTCCCTG TCAGCATGCA 4440 CTGGGCGGGA AATAGCTTTG AATACATCCG CCCTGTTCAC ACTTTAACTG TTCTCTTGGA 4500 TGAGCAAGAG TTTGACTTGG ATTTCCTTGA TATCAAGGGA AGTCGTGTGA GTCGTGGCCA 4560 TCGTTTTTTG GGACAAGAAA CCAAGATTCA GTCAGCATTG AGCTATGAAG AAGACCTTCG 4620 TAAGCAGTTT GTAATCGCAG ATCCATGTGA ACGTGAGCAA ATGATTGTTG ACCAAATCAA 4680 GGAAATTGAG GCAAAACATG GTGTACGTAT CGAAATTGAT GCGGATTTGC TGAATGAAGT 4740 CTTGAATTTG GTTGAATACC CAACTGCCTT CATGGGAAGT TTTGATGCTA AATACCTTGA 4800 AGTTCCAGAA GAAGTCTTGG TGACTTCTAT GAAGGAACAC CAGCGTTACT TTGTTGTTCG 4860 TGATCAAGAT GGAAAACTCT TGCCAAACTT CATTTCTGTT CGTAACGGAA ACGCAGAGCG 4920 TTTGAAAAT GTCATCAAAG GAAATGAAAA AGTCTTGGTA GCCCGCTTGG AAGACGGAGA 4980 ATTCTTCTGG CGTGAAGACC AAAAATTGGT GATTTCAGAT CTTGTTGAAA AATTAAACAA 5040 TGTCACCTTC CATGAGAAGA TTGGTTCTCT TCGTGAACAC ATGATTCGTA CGGGTCAAAT 5100 CACTGTACTT TTGGCAGAAA AAGCTAGTTT GTCAGTGGAT GAAACAGTTG ACCTTGCTCG 5160

TGCAGCAGCC ATTTACAAG	TTGACTTGTT	GACAGGTATG	GTTGGTGAAT	TTGACGAACT	5220
CCAAGGAATT ATGGGTGAAA	AATACACCCT	TCTTGCTGGT	GAAACTCCAG	CGGTGGCAGC	5280
TGCTATTCGT GAACACTAC	A TGCCTACATC	AGCTGAAGGA	GAACTTCCAG	AGAGCAAGGT	5340
CGGCGCAGTT CTAGCCATTC	G CAGACAAATT	GGATACGATT	TTGAGTTTCT	TCTCAGTAGG	5400
ATTGATTCCA TCAGGTTCTA	ATGACCCTTA	TGCCCTTCGT	CGTGCAACTC	AAGGTGTGGT	5460
TCGTATCTTG GATGCCTTTC	GTTGGCACAT	TGCTATGGAT	GAGCTGATTG	ATAGCCTTTA	5520
TGCATTGAAA TTTGACAGT	TGACTTATGA	AAATAAAGCA	GAGGTTATGG	ACTTTATCAA	5580
GGCTCGTGTT GATAAGATGA	TGGGCTCTAC	TCCAAAAGAT	ATCAAGGAAG	CAGTTCTTGC	5640
AGGTTCAAAC TTTGTTGTG	G CAGATATGTT	GGAAGCAGCA	AGTGCTCTCG	TAGAAGTAAG	5700
CAAGGAAGAA GATTTTAAAG	CATCTGTTGA	ATCACTTTCT	CGTGCCTTTA	ACCTGGCCGA	5760
GAAGGCAGAA GGGGTTGCTA	CGGTTGATTC	AGCACTATTT	GAGAATGACC	AAGAAAAAGC	5820
TTTGGCAGAA GCAGTAGAAA	A CACTCATTTT	ATCAGGACCT	GCAAGTCAGC	AATTGAAACA	5880
ACTTTTTGCG CTTAGCCCAC	TCATTGATGC	TTTCTTTGAA	AATACTATGG	TAATGGCTGA	5940
AGATCAGGCT GTCCGTCAAA	ATCGTTTGGC	AATCTTGTCA	CAACTAACCA	AGAAAGCAGC	6000
TAAGTTTGCT TGTTTTAACO	AAATTAACAC	TAAATAAAT	TTGATAAACG	GACTTTATCT	6060
TATTACAAAG GAGAAGAAA	GGATCCGAAA	AAAATTGCTC	GTATCAATGA	GCTTGCTAAA	6120
AAGAAAAAA CAGAAGGCTT	AACACCAGAA	GAAAAAGTGG	AACAAGCCAA	ACTACGTGAG	6180
GAGTACATCG AAGGTTATCO	CCGCGCTGTT	CGTCACCACA	TTGAAGGAAT	CAAAATTGTG	6240
GACGAAGAAG GAAACGATG	TACACCAGAA	AAACTACGCC	AAGTACAACG	TGAAAAAGGA	6300
TTACATGGCC GTAGTCTTG	TGATCCAAAT	ТСАТААТААТ	ACTCTTCGAA	AATCAAATTC	6360
AAACCACGTC AGCTTCACCT	TGCCGTACTT	AAGTACAGCC	TGCGGCTAGC	TTCCTAGTTT	6420
GCTCTTTGAT TTTCATTGAC	TATATGTATT	CTTTCTTTTA	ACAAAGATAG	ATGAAACGAT	6480
AACAAAGAGA CTAGCAGTTT	GTGTTTGCTA	GTCTTTTTTC	GCTAAAAAAG	GAACCATAAT	6540
GGTTCCTAAA AACTATCATT	AGTAACTTGC	ACCGGCTGTA	GCGTCTGCGT	CACCACCGTG	6600
GCCTCCAGCA TCCCCTGAAT	CAGAAGCGCC	AGAAGTAGCA	TCGGCGTCTC	CATGACCTCC	6660
GGCAGCAGGA GCAAATGGTC	CGCTACCACC	CACCAAACGT	TGACCAGTCT	CTTTTAGGTA	6720
CCAGTCAAGC CATGGTTGGA	AGTTAAAGAC	GATTTCATTG	ATACCAGCGT	ATGATCCATC	6780
AGGATAGTAC ATTGCTTGGT	AGTTGTGAGT	GTTGATAACA	CCTGCAGGAG	AACCTGGAAC	6840
GATCGTACGG ACGTATTCTT	GGTTTCCGTT	GCGAAGTGTT	CCGATAACCC	ACTCTACGTT	6900

CTTCATACGT	GCTGGTGGAA	GAGAACCATG	508 AACAGTCGAC	ATACGGCTAC	CTGATTGAGG	6960
TGGTACACGT	TTAGCGAACA	TAGTGTCTGG	ATCTTGGTGA	GCGTTGTTGT	AGTAGAGGAA	7020
TTGGTTGTTG	TCGTCAGCGT	ATGTCAATTC	AAATGGCATA	GCTTTCAAGA	ACATATCAAT	7080
TTGGTTAACT	GTTAGGATAC	CGTGGTCCAA	TTTGACATAG	GTATCACCAG	AAACAGCACC	7140
AGTGAATGCT	GCAACTTTTT	CTACCCATTC	TGGATCGTCA	GGGTCAACTT	CTGTGATGGT	7200
TGTAGCGATT	GGTTTTCCAC	AATCCAAGTC	TTCTGATTCG	ATTGGTTTTG	GTTTTTTCAA	7260
TTTCGAAACG	ACTCCTACGT	ATTTAACAAA	GTTATCTAAG	CAAGTTTCAA	GGAATTTAAC	7320
AGTGCCTTCG	TTGGTGATAT	TTCCGTTGTT	ATCAAAAGCT	TCCTTAGCTT	TACCAAGAAG	7380
GAATTCGTTA	CCTGGAAGCG	TGTAGGCATT	AACACCTGGA	GCATCAAGGA	TTTTACGAAG	7440
GTGAACTTGA	GCACGTGATG	TTCCTTGGTC	ATAGTATGAT	GCACCCACAA	TCATAACAGG	7500
CTTGTTTTCA	AATGGATGAA	CTTCGTATGA	AAGCCATTCA	AGTACAGATT	TGAGTGAAGC	7560
TGAGATAGTG	TGGTTATGCT	CAGGAGTAGC	AATGATAACA	CCATCTGCAC	GAGTAATTTT	7620
GTTATATAAA	TAACGTAATT	GGAAACTTTC	ATCCCATTTT	TCATCTTGGT	TAAACATTGG	7680
AACTTCGTCA	ATTTCAAGAA	CTTCTAATTC	AAATTTGAGT	TTGAAGTAGC	GACGGATAAA	7740
TTCCAAGAGC	TTACGGTTAT	ATGATTGATC	GTAGTTTGAT	CCAACAAGTC	CAACAAATTT	7800
CATTCTTTTT	GGTCTCCTAT	CTTACAAATT	TTCCCAGTCA	AAGTCTTCAG	CATCTTTGCG	7860
AAGTAATTCT	TGTGCATTAC	GTAATTTTTC	TGTGATTTTT	ACAAAGATAC	GGAAGTCATC	7920
AAAGATGGCA	TCCAATTTCT	TGATAACATC	AAGGTCAACC	AAGTCGCCAC	TTGGGTTAAA	7980
TGCTTGAAGA	GAGTGTGAGA	GCAAGAATTC	ATCTGGAAGA	ACATTTGCCT	TGATTTCAGG	8040
AGCATTCAAG	ATTTGACGAA	GTTGCAATTG	GGCACGAGAT	GAACCAAGCG	TACCGTAAGA	8100
AGCACCTGTA	ATCATGATTG	GTTTGTTCAA	AAGTGGGTAA	ATACCATAAG	ACAACCAAGC	8160
AAGAGCGCTC	ATCAAAACAG	CTGGAATAGA	GTGATCATAC	TCAGGAGTAC	CGATAATAAC	8220
GCCATCTGCC	TCTTCGATTT	TAGCAGCAAT	TTCCAATATT	TCAGCAGGTA	CTTGCTTGTC	8280
AGCTGGTTTG	TTGAAGACAG	GAATGGCCTT	GATTTCAACA	AGTTCAATTT	CAGCTTTGTC	8340
AGTAAAGTGT	TTTTGCATGT	ATTGAAGCAA	TTGACGGTTT	GTAGAACGTT	TTGAATTTGT	8400
TCCAACAATA	GCAATAAGTT	TTAACATGAG	ATTTCCTTTC	TCTTTTTACA	TAATACAATT	8460
TTAAAATTCC	ATTGAAACAG	TTGTCTCTAT	AGAGTAGGAA	TTCCTGAAGA	ACAGCTTAGG	8520
TGGCCTTCTT	TATCGATGAG	GATGACTTCG	ATGCCCTCCA	AACTTTCGAC	TTGCCAGAGG	8580
ATAGAAGCAG	GTCTTTCTCC	AAAGAGTCGA	GTCGTCCAGA	TTTCGCCATC	GACTGATTTA	8640
TCAGAGATGA	TTGTTAGACT	CGCTAGTTCC	GTTTCAACAG	GATATCCTGT	TTGACTGTCA	8700

AAAATGTGAT	GGTAATCTTG	TCCATCGACG	GTCAGGTGAC	GTTCATAAAT	GCCTGAAGTC	8760
ACGACAGATT	TATTGACAAC	AGGGATGGTC	ATTAAATGAT	TTCCCCTAGG	ATTGGCTGGG	8820
TCTTGAATCC	CGATTTGCCA	TGGGTTATCC	CCTCTTGCCT	GATTTTTTCC	AATGGTCAGG	8880
ATATTCCCTC	CCAGATTGAT	CAAGGCAGAA	GTCACCCCCT	CTTTCCTAAG	AAATTGGGCA	8940
ACCTTATCCG	CACTGTATCC	TTTGGCTAAA	CAACCTAGAT	CGATCTTCAT	TCCTTTCTGT	9000
TTTAAAAACA	CAGTAGAAGT	AGAAGAATCT	AACTCGATAC	CATGAGGATT	GATTAGAGGC	9060
AGCACCGATT	CAATTTCTTG	AGGCTGGGCG	ACCTTGGCAT	CTGAAAAACC	GATACGCCAG	9120
GTTTGAATTA	AGGGACCAAT	GCTGATATTG	AGGTGGCTAG	AGAGCGCTAG	GCTATGCTCT	9180
AACCCAAGTG	AAATCAGCTC	AAACAGGTCT	GGATGAACCG	TGACGGGGGC	TATTCCTGCT	9240
TGATAATTGA	TTTCCATCAA	CTCAGATTCT	TGACTATTGG	CGTTGAAGCG	GTATTCAAGT	9300
TCTTTGAGCA	AGTCAAAGGA	TTTTTGGAGA	AAGATATCGG	CTTGCTCATC	CACTAATGAA	9360
ATAGTGATAG	TAGTCCCCAT	TAGCCGTTCA	GAATGTGAAC	GAAGAGTCAA	GCTACCAACT	9420
CCTTTCTCTT	ATAGAAAATA	AGTTGTAATA	TCAAATAATC	ATCTAAATTG	AAGCCCTTAC	9480
ATTTCATTTT	CATGTTATTA	TAATACCATA	AAGTTAGAAT	TTTCACAAAC	AAAATTTGGA	9540
AAAAGTCAAG	AAATATGCTC	ATAAAATTCA	TCAGGCTTGA	AAACAGGATA	AATGGGGAAT	9600
TATTTTTGAT	AAAAAATGCT	GAAATAATAG	TACCCCCCTT	GTAAACGCTA	ACGGTAAATG	9660
GTATACTAGT	AAGGTAAATT	TAGAATGAAG	GCAGGAAATT	TTTATGAGTA	AAATCGTTGT	9720
AGTCGGTGCT	AACCACGCTG	GTACAGCATG	TATCAATACC	ATGTTGGATA	ATTTTGGAAA	9780
TGAGAACGAA	ATTGTTGTAT	TTGACCAAAA	CTCTAACATC	TCTTTCCTAG	GATGTGGAAT	9840
GGCTCTTTGG	ATTGGTGAAC	AAATTGACGG	TGCTGAAGGC	TTGTTCTATT	CTGATAAAGA	9900
AAAATTGGAA	GCTAAAGGTG	CTAAAGTTTA	CATGAACTCA	CCTGTTCTTT	CAATCGACTA	9960
TGATAACAAA	GTAGTTACAG	CGGAAGTTGA	AGGAAAAGAG	CACAAAGAAT	CATACGAAAA	10020
ATTGATTTTC	GCTACAGGCT	CTACACCAAT	CTTGCCACCA	ATCGAAGGTG	TTGAAATTGT	1.0080
TAAAGGAAAC	CGCGAATTTA	AAGCAACTCT	TGAAAACGTA	CAATTCGTGA	AATTGTACCA	10140
AAATGCTGAA	GAAGTTATCA	ATAAACTTTC	TGACAAGAGC	CAACACCTCG	ACCGTATCGC	10200
CGTTGTTGGT	GGTGGTTACA	TCGGTGTTGA	ACTTGCTGAA	GCCTTTGAAC	GTCTTGGAAA	10260
AGAAGTTGTC	CTTGTTGATA	TCGTTGATAC	TGTCTTGAAC	GGTTACTATG	ACAAAGACTT	10320
CACACAAATG	ATGGCGAAGA	ACTTGGAAGA	TCACAACATC	CGCTTGGCTC	TAGGTCAAAC	10380
TGTTAAAGCA	ATCGAAGGTG	ACGGTAAAGT	TGAACGCTTG	ATTACTGACA	AAGAAAGCTT	10440

510 TGACGTGGAT ATGGTTATCC TTGCAGTTGG TTTCCGTCCA AACACAGCCC TTGCAGGTGG 10500 TAAGATCGAA CTCTTCCGCA ACGGTGCCTT CCTTGTAGAC AAGAAACAAG AAACATCTAT 10560 CCCAGACGTT TACGCTGTTG GTGACTGTGC GACTGTTTAT GACAATGCTC GTAAAGATAC 10620 AAGCTATATC GCTCTTGCTT CAAATGCTGT GCGCACTGGT AACGTTGGT 10669

(2) INFORMATION FOR SEQ ID NO: 58:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 7542 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

CGCGCTAATA GATACTTTAT	GATAGAATAA	AGAACAAGAT	TGACAAGTAA	GAGGAAACAT	60
TATGCAAAAT CAAACACTCA	TGCAATACTT	TGAATGGTAT	CTGCCCCACG	ACGGTCAACA	120
CTGGACGCGT CTGGCTGAAA	ATGCTCCACA	CCTAGCTCAT	CTGGGGATCA	GTCACGTCTG	180
GATGCCACCA GCCTTCAAGG	CAACCAACGA	AAAAGATGTC	GGCTATGGGG	TCTATGACTT	240
ATTTGACTTA GGAGAGTTCA	ACCAAAAAGG	GACTGTCCGC	ACCAAGTATG	GTTTCAAAGA	300
AGACTATCTT CAAGCCATTC	AAGCCCTTAA	AGCACAGGGA	ATTCAACCTA	TGGCCGATGT	360
AGTTCTCAAC CACAAGGCTG	CTGCCGATCA	CAGGGAAGCC	TTTCAGGTTA	TCGAAGTTGA	420
TCCTGTAGAC CGTACAGTTG	AACTTGGAGA	ACCCTTCACC	ATCAATGGCT	GGACTAGTTT	480
TACCTTCGAT GGTCGCCAAG	АТАССТАТАА	TGGCTTCCAC	TGGCATTGGT	ACCACTTCAC	540
CGGTACAGAC TACGATGCCA	AACGCAGTAA	ATCTGGGATT	TATCTGATCC	AAGGGGACAA	600
CAAGGGCTGG GCCAACGAGG	AATTGGTCGA	TAACGAAAAC	GGAAACTACG	ACTACCTCAT	660
GTATGCCGAC CTAGACTTTA	AACATCCTGA	AGTCATCCAA	AACATCTATG	ACTGGGCTGA	720
TTGGTTCATG GAAACGACTG	GTGTAGCTGG	TTTCCGTTTG	GATGCCGTTA	AGCATATTGA	780
CTCTTTCTTT ATGCGCAACT	TCATCCGCGA	TATGAAGGAA	AAATACGGTG	ACGATTTCTA	840
TGTTTTTGGT GAATTTTGGA	ACCCAGACAA	GGAAGCCAAT	CTGGACTATC	TCGAAAAAAC	900
GGAAGAACAC TTTGACCTTG	TCGATGTTCG	TCTCCACCAG	AATCTCTTTG	AAGCCAGTCA	960
AGCTGGCGCA AACTATGACC	TTCGTGGCAT	TTTCACAGAT	AGCCTGGTTG	AACTCAAGCC	1020
TGACAAGGCT GTGACTTTTG	TCGACAACCA	CGATACCCAA	CGAGGACAAG	CCCTTGAGTC	1080
TACCGTTGAA GAATGGTTCA	AGCCAGCAGC	CTATGCCCTC	ATTTTGTTAC	GCCAAGACGG	1140
CCTTCCATGT GTCTTTTACG	GAGACTACTA	TGGGATTTCA	GGGCAGTATG	CTCAAGAAGA	1200

TTTCAAAGAA ATCCTTGACC	GCCTCCTAGC	CATCCGAAAA	GATTTGGCCT	ATGGAGAACA	1260
AAATGACTAC TTTGACCATC	CTAACTGTAT	CGGTTGGGTA	CGTTCAGGTG	CTGAAAATCA	1320
ATCCCCAATC GCAGTCCTTA	TCTCAAATGA	CCAAGAAAAC	AGCAAGTCAA	TGTTTGTCGG	1380
TCAAGAATGG ACTAATCAA	CCTTTGTAGA	TTTACTTGGT	AACCACCAAG	GTCAAGTTAC	1440
AATTGATGAG GAAGGTTATG	GACAATTCCC	TGTCTCAGCT	AGATCCGTAA	GTGTCTGGGC	1500
AGTCAATACC ATCTAATAGO	TCATAATAAC	CAAGCTAGGT	CCAAGCGGAT	TTGGCTTTTT	1560
TGTATTCACA AAAAGACCTA	CCCAAATGGA	TAGATCTTTA	CTTGATTACA	ATTTACCTGC	1620
TACTGCATCC AACAATTCTT	GGATCTTAGG	TTGGTTGCTT	CCTCCTGCCA	TGGCCATATC	1680
TGGTTTACCA CCACCACGTO	CATCGATGAT	TGGTGCTAAT	TCTTTGACAA	GGTTTCCTGC	1740
ATGAAGGTCT TTTGTCTTGC	TTGCTACAAG	GACATTGACT	TTGTCACCGA	TAGCGGCAAC	1800
TAGGACAAGA AGATCAGAGT	AGTCTTTTTG	TTTCCAGTTA	TCTGCAAAAG	TACGAAGGGC	1860
ACCGGCATCG GATACAGACA	CTTGACTAGC	AATGTAACGA	TGACCGTTGA	CTTCCTTAAC	1920
ATCTTTGAAG ATATCGCCTG	CGGCTGCAGC	TGCGGCTTTT	TCTTTCAACT	CAGCATTTTC	1980
TTTTTGAAGT TGACGAAGTT	GTTCTTGAAG	TCCTTCTACC	TTGTGAGGTA	CTTCCTTGAC	2040
TTGAGGTGCT TTCAAGGTTG	CTGCGATAGC	TTTAAGAGCA	TCCTCTTGTT	CACGATAGGC	2100
TTCAAAGGCT TCCTTACCAG	TCACTGCCAA	GATACGGCGA	GTTCCTGAAC	CGATTCCTTC	2160
TTCTTTGACA ATTTTGAAGA	GACCAATCTC	AGAAGTGTTG	TCAACATGAG	TACCACCACA	2220
AAGTTCAATA GAGTAGTCAC	CGATAGTCAC	GACACGAACT	TCCTTGCCGT	ATTTCTCACC	2280
AAAGAGGGCC ATAGCTCCCA	TTTCTTTAGC	AGTGTCAATA	TCCGTTTCAA	CTGTCTTCAC	2340
TTCAAGTGCT TCCCAAATTT	TCTCGTTAAC	TTGCTGTTCA	ATCGCACGAA	GTTCCTCAGC	2400
AGTTACTGCT TGGAAGTGGG	TAAAGTCAAA	GCGAAGGAAT	TCAACTTCGT	TAAGAGATCC	2460
TGCCTGTGTT GCGTGGTTTC	CAAGGATATT	GTGAAGGGCA	GCGTGAAGCA	AATGAGTCGC	2520
AGTGTGGTTT TTCATGACAC	GGTGACGGCG	ATTGCTATCA	ATTGCCAAGG	TATATTCTTG	2580
GTTCAAGGCA AGCGGTGCAA	GGACTTCAAC	TGTATGAAGG	GCTTGACCAT	TTGGGGCTTT	2640
CTGAACATTG GTCACAGTAG	CCACAACCTT	ACCTGACTCA	TCCAAGATTT	GTCCGTAGTC	2700
AGCTACCTGT CCACCCATTT	CAGCATAAAA	TGACGTTTCC	GCAAAGATAA	GAGAGGCAGT	2760
TCCTTCTGAA ACAGCTCCTA	CTTCTGCATT	GTCAGCAACG	ATAGCTACCA	ATTTAGAAGA	2820
CAATTGGCTA GCATTGTAGT	TGAAGACACT	TTCTACAGTG	ATGTTTTGAA	GAGTTTCATT	2880
TTGCATACCC ATTGAGCCAC	CCTTGACAGC	TGACGCACGC	GCGCGTTCTT	GCTGTTCTTT	2940

512 CATGGCTGCT TCAAAACCTT CACGGTCTAC AGTCATACCA GCTTCTTCAG CGATTTCTTC 3000 AGTCAATTCA ACTGGGAACC CATAAGTATC ATAGAGTTTG AAGACATCTG AACCAGCGAT 3060 AACAGATTGA CCTTTTTCTT TCAAGTCTGC TACAATGCCT TGGGCAAAGT GTTGACCTGA 3120 GTGAAGGGTA CGGGCAAATG ATTCTTCTTC GCTCTTAACG ATTTTCTCAA TAAAGTCACG 3180 TTTCTCAAGC ACTTCTGGGT AGTAGCTTTC CATGATTTTT CCAACAGTTG GAACCAATTT 3240 GTAAAGGAAA GGCTCGTTGA TACCCAATTT TTGACCATGC ATAGAAGCAC GACGGAGAAG 3300 ACGACGAAGA ACATAACCAC GACCTTCATT TCCTGGAAGG GCACCATCAC CGATAGCAAA 3360 TGAAAGAGAA CGAATGTGGT CTGCGATAAC CTTGAAGCTC ATGTTGTCGC CATCTTGGTC 3420 ATAAACCTTA CCAGACAATT TCTCGACTTC ACGGATAATC GGCATGAAGA GGTCCGTTTC 3480 AAAGTTGGTC TTAGCCCCTT GGATAACGGC CACCAAACGC TCCAAACCAG CGCCCGTATC 3540 AATGTTCTTA TGTGGCAATT CCTTGTATTC GCTACGAGGA ACAGCAGGGT CTGCGTTAAA 3600 TTGTGACAAA ACGATGTTCC AGATTTCAAT ATAACGGTCG TTTTCAATAT CTTCTGCAAG 3660 CAGGCGAAGA CCGATATTTT CTGGGTCAAA GGCTTCCCCA CGGTCAAAGA AGATTTCTGT 3720 ATCTGGTCCA GAAGGTCCCG CACCGATTTC CCAGAAGTTG TCCTCAATTG GAATCAAGTG 3780 ACTTGGATCC ACTCCCACTT CAATCCAGCG GTTGTAAGAA TCTTTATCGT CTGGATAGTA 3840 GGTCATGTAA AGTTTTTCAG CAGGGAAATC AAACCATTCA GGGCTTGTCA AAAGCTCATA 3900 AGCCCAAGTG ATAGCTTCGT CACGGAAGTA ATCCCCGATA GAGAAGTTCC CCAGCATTTC 3960 AAACATGGTA TGGTGACGCG CGGTCTTCCC TACGTTTTCG ATGTCGTTGG TACGGATAGC 4020 CTTTTGGGCA TTGGTAATAC GTGGATTTTC AGGGATAATG GTCCCGTCAA AGTATTTCTT 4080 AAGGGTTGCT ACCCCAGAGT TGATCCACAA AAGAGTTGGG TCATTTACAG GAACCAAACT 4140 TACTGATGGT TCTACTGAGT GACCTTTGGT CGCCCAGAAA TCAAGCCACA TTTGGCGTAC 4200 TTGTGCACTA GATAGTTGTT TCATATTGTC TCCTTATTCA CTTGTTTAAT GTGATTGGCT 4260 TTCCAGCATT TCCACATAGT CAATCGCGAC ACAGAGGGAA ATGACTAGGT CTGCATAAGC 4320 GTCTTCAAGA ACCGTTACGG TATAGGTAGA AGTCAGATGG AAGAGTTCCT TCTTAATTTC 4380 CGCAATCAAC TGATCGCGAT CATCCAGCAA TTTGAAATTC AAATCCCAGA TATTGCCCTC 4440 GATACGAAGA CCTAGATTAT CAAACTCATA CTTATCTCGC CAGAAGGTCA ACTTCTTACG 4500 AATGACAAAA CTCGAGCCAT CCCGAAGCTG AATTTCAAAA CGAGGAAGCA AGGTCAAGAT 4560 TTCTTTACTA ATCTCACTGA CTTGTTCACC AGCCGCATCA TAGATGGTAA AGGTTTTAGG 4620 AATCTTAAAA AATGATCCCT CCACCTGATA GGCAATTTCT CCCCTGTCAT CCTTGATAGC 4680 GAAGCGTTCG CCTCCAAGAC GAAACTTTTG TTTGACAAGA AATGTTTTCA TCAACACCTC 4740

CAAAAATCAA	AAGACAAGCT	CATATCACGA	AGGGCGAAAA	ACCGCGGTAC	CACCTTCATT	4800
CAATGAACTT	GTCATTCTCT	TGTTCTTATG	CAATTGTATG	ATTGAGTAGC	ATGACTTCCT	4860
AGCTTAGATG	GCTCGCAGCA	CCGCCATTTC	TCTGGACTAA	GACAAGTGAA	AATCAATTCT	4920
CAACTTTCTT	ATTATAACGT	TTTTTTAAGC	TTGCGTCAAC	TGGAAATGAT	CTCCGTTGAA	4980
TTAGACCAAT	TCCCTACATC	TCTGATTACT	TTTTCAGGAT	ATATTTTTC	TTACTGCCAT	5040
TTTTCTTTT	ATCCCAAATT	TTCATATTAC	TAAACACAGC	TACTAGAATA	TTTCCAAATA	5100
TAAAGGTGCC	TATCACCCAA	TATATGGACT	CAGTTGTTAG	GTATTGTCGA	TCCAAGCCAT	5160
CCTTTAAATG	GAATAGTATA	GCAGTTTGGT	TAACAATCAT	AAAGGTTGGC	CAGAAACTTT	5220
TTTTGAAAAA	AGTAGACATT	TTCATTATTT	GTTGCCGCTT	TCTGTAAGGT	TAATACTCAA	5280
TAAAAATCAA	AAAGCAAACT	AGGAAGCTAG	CCTCAAGCTG	TACTTGAGTA	CGGCAAGGCA	5340
ACGCTGACGT	GGTTTGAAGA	GTATAGGCTT	AGTATACTAC	TAGGCAAGCA	ААТАААСААА	5400
таласалста	GAATAGAAAA	AGATAGGGCT	CTAAAAACTG	ACTTCTATTC	CTTAAAAACG	5460
AACCAGCTTG	ACTGATTCGT	CTTCTTACGT	TTATCTCCTA	CTTCCGATAC	ATTTTAAACT	5520
GTAGGAAGAG	GTCGCTATAT	TTCCCTGTCC	ATTTATGGTC	AAATTTCTCA	TAAACTTCTA	5580
GGTGTTTCAT	GGTTTCAACA	TCGGGATAGA	AGGCCTTATC	TTCCTTTGTT	TCCTCTGGGA	5640
GCAATTCCTT	CGCTGGTAGG	TTTGGTGTTG	AATAGCCGAC	ATACTCCGCA	TTTTGGAGAG	5700
CATTTTCAGG	TTTCAACATA	AAGTTGATAA	AGGCATAGGC	TGAGTTTTGG	TTTTTAACTG	5760
TTTTGGGAAT	GACCATATTG	TCAAACCAAA	GATTGCTGGC	CTCTGTCGGT	ACCACATAAC	5820
GTAGATTTTC	ATTTTTTTCT	AACATTTGGC	TGGCTTCACC	AGAGAAGGTC	ACGCCGATTG	5880
CAACATTATT	CTGAATCATA	TAGCCCTTCA	TCTCGTCCGC	AACGATAGCC	TTGATATTTG	5940
GAGTCAGTTT	GTAGAGCTTA	TCCACTGTCT	CTTCCAACTG	CTGCAGATCC	TTGGAGTTGA	6000
GGCTGTAGCC	GAGGGAATTG	AGTCCTAGTC	CCAGCACCTC	ACGCGCCCCA	TCAAAGAGCA	6060
TGATAGAATT	CTTATACTCC	GGCTTCCAAA	GGTCATCCCA	ATGCTCAGGC	GCTTCATCTA	6120
CCATGGTTTC	GTTGTAGACA	ATTCCTAAGG	TTCCCCAGAA	GTAAGGGATG	GAGAATTTAT	6180
TACCTGGGTC	AAAGGACTGG	TTGAGAAACT	CTGGTCCGAT	ATTTTCGATT	CCTTCAATTT	6240
TTGAATAATC	AAGCGGAACC	AAGAGGTCTT	CGTCCTTCAT	CTTGTTAATC	ATGTATTCAC	6300
TTGGAATGGC	AATATCGTAG	GTCGTTCCAC	CCTGCTTTAT	CTTAGTGTAC	ATGGCTTCGT	6360
TGGAGTCAAA	AGTCTCGTAC	TGAACTTGAA	TTCCTGTTTC	TTCTGTAAAC	TGAGTCAAGA	6420
GTTCAGGATC	GATATAGTCT	CCCCAGTTAT	AGATAACCAA	TTTTTGACTA	TCTCGACTAT	6480

			514			
TGATTTTACT	ATCTAAATGA	GTCGCAATTC	CCCACAAGAC	AAGGATAATC	GCTGCAATTC	6540
CTGCTAAAAA	TGAATAGATT	TTTTTCATGC	TTGCTCCTCC	TTCTCACGAG	AGATAAAGTA	6600
ATAACCTACA	ACTAGGATAA	TACTAAAGAG	AAAGACTAGA	GCAGACAGGG	CATTGATTTC	6660
TAAGGAAATC	CCCTTGCGAG	CACGAGAGTA	AATCTCGACT	GATAGGGTTG	AAAAGCCATT	6720
TCCTGTTACA	AAGAAGGTCA	CGGCAAAGTC	ATCTAACGAA	TAGGTGAAGG	CCATGAAATA	6780
ACCAGTAATG	ATAGACGGAG	TCAGGTAAGG	AAGCATGATT	TCCTTGAACA	TCTGAAATTG	6840
ACTAGCTCCC	AAGTCATAGG	CCGCATGAAT	CATGTCGCCA	TTCATTTCCT	TGAGTCGAGG	6900
CAAGACCATC	AAGACCACGA	TAGGAATGGA	GAAGGCCACG	TGACTAGATA	GAACGGTCAA	6960
AAAGCCAAGT	GAAAACTTGA	GTTGGGTAAA	GAGAATCAAG	AAGCTAGCAC	CAATCATAAC	7020
GTCAGGCGCA	ACCATGAGGA	TATTATTGAG	TGATAGAAAG	GCTTCTTGGT	ATTTCTTACG	7080
AGACTGGTAG	ATGTAAATGG	CACCAAAAGT	CCCGATAATG	GTCGCTATCA	AGGCTGATAG	7140
GAAGGCCAAG	AAAAATGTCT	GAGCCAAAAT	CAGCATGAGT	CTCCCATCTC	CAAACATGGT	7200
TTCAAAGTGA	GTCCAGCTAA	AACCTGTAAA	GCTATTCATA	TCATCACCAG	CATTAAAGGC	7260
ATAGCCAATC	AAGTAAAAGA	TAGGCAGGTA	GAGGACCAGA	AAGACCAGTC	CCAGATAAAG	7320
GTTGGCAAAT	TTTTTCATCG	TTCTCTCCTT	TCCTTAGTCA	CCCACATGGT	GATGAACATG	7380
GTCAGGATGA	GAATCACACC	GATGGTTGAA	CCCATACCAT	AGTTGTCATT	GGTTAGAAAA	7440
FTCTGCTCAA	TAGCCGTCCC	CAAGGTGATA	ACGCGTTCCC	ACCAATCAAA	CGGGTCAGCA	7500
rgaagagact	CAAACTTGGG	ATAAAGACCG	ACTGAACCCC	GG		7542
(2) TATEODAY	AUTON DOD OF	00 TD NO. EC	١.			

(2) INFORMATION FOR SEQ ID NO: 59:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 9223 base pairs

 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 59:

AAAACCAAAT	TCCGGTATTT	TAACCTATGC	TGTAAATACC	ATGAAGTCTG	TCATGACAGA	60
TCAGGTCTAT	AACATTAAGG	TTGAGACAGA	AAATGGAAAT	TATGTTGGTG	AAGCTAGCCA	120
TGTTTTGGTC	CTTTTGACAA	ATTACTTCGC	TGATAAGAAA	ATCTTTGAAG	AAAACAAGGA	180
CGGCTATGCC	AACATTTTGA	TTCTGAAAGA	TGCCTCTATA	TTCTCCAAAT	TATCCGTCAT	240
TCCTGATTTA	TTAAAAGGGG	ATGTTGTCGC	AAATGATAAT	ATCGAGTATA	TCAAAGCGCG	300
TAATATTAAA	ATCTCTTCAG	ATAGTGAATT	GGAGTCAGAT	GTTGACGGAG	ATAAATCAGA	360

TAACCTACCT	GTAGAAATCA	AAGTCCTAGC	TCAGCGAGTA	GAAGTATTTT	CAAAACCGAA	420
AGAGGATTAG	TATATAGAGA	AAGCCTTTTT	TAAGGCTTTT	TGTATACTTT	AAAAGATAGT	480
TCCTTTAACA	ACGGACATTC	CTTGCAAATA	GTTTTACAAA	AATAGTATAC	TGGATTCATT	540
GAGTTTGAAA	ACGTTTGCGT	AAAATTTGAA	TGAATACTTT	AGGAGACAAA	TTGATGGAAT	600
TGAGTGCTAT	TTACCATAGG	CCTGAGTCGG	AGTATGACTA	TCTTTATAAG	GATAAGAAAC	660
TCCATATTCG	AATTCGAACT	AAGAAAGGGG	ACATTGAAAG	CATCAACTTG	CACTATGGGG	720
ACCCTTTTAT	CTTTATGGAG	GAGTTTTATC	AGGATACAAA	AGAAATGGTC	AAGATAACTT	780
CTGGTACCTT	ATTTGACCAT	TGGCAGGTTG	AAGTGTCAGT	TGACTTTGCA	CGTATCCAGT	840
ATCTCTTTGA	GCTCAGAGAT	ACAGAAGGTC	AAAATATTTT	GTATGGCGAT	AAAGGGTGTG	900
TGGAAAATTC	TCTAGAAAAT	CTTCATGCAA	TTGGGAATGG	ATTTAAGTTG	CCTTAGCTTC	960
ATGAGATTGA	TGCCTGCAAG	gTTCCTGACT	GGGTTTCAAA	TACGGTATGG	TATCAGATAT	1020
TTCCTGAAAG	ATTTGCCAAT	GGCAATGCTC	TATTAAACCC	AGAAGGGACT	TTAGACTGGG	1080
ATTCATCTGT	CACACCTAAG	AGCGATGATT	TCTTTGGTGG	TGATTTACAG	GGGATTATTG	1140
ATCATATGAA	TTACTTGCAA	GACTTGGGTA	TTACTGGACT	ATATCTTTGT	CCCATCTTTG	1200
AATCTACAAG	CAATCACAAG	TACAATACGA	CAGATTACTT	TGAAATTGAC	CGTCATTTTG	1260
GAGACAAGGA	GACCTTTCGG	GAACTGGTGG	ATCAAGCGCA	TCATCGTGGC	ATGAAAGTCA	1320
TGCTGGATGC	GGTATTTAAT	CATATTGGTT	CGCAATCTCT	TCAATGGAAA	AATGTCGTCA	1380
AAAATGGTGA	ACAGTCTGCT	TATAAGGATT	GGTTCCATAT	TCAACAATTC	CCAGTGACAA	1440
CTGAAAAGCT	AGTTAATAAG	AGAGACTTAC	CCTATCATGT	TTTTGGTTTC	GAGGACTATA	1500
TGCCTAAGCT	AAATACAGCC	AATCCAGAGG	TCAAGAATTA	TCTTTTAAAG	GTTGCGACTT	1560
ATTGGATTGA	AGAGTTTAAT	ATCGATGCTT	GGCGTTTGGA	TGTGGCTAAT	GAGATTGACC	1620
ATCAGTTCTG	GAAGGATTTT	CGTAAGGCAG	TTTTAGCTAA	AAATCCTGAT	CTTTATATCC	1680
TAGGAGAAGT	CTGGCATACA	TCTCAGCCTT	GGCTAAATGG	AGATGAGTTC	CATGCCGTCA	1740
TGAATTATCC	TTTATCTGAT	AGTATCAAGG	ACTATTTCTT	ACGAGGAATT	AAGAAGACAG	1800
ACCAGTTCAT	CGATGAAATC	AATGGAGAGT	CTATGTATTA	CAAGCAGCAG	ATTTCAGAGG	1860
TCATGTTTAA	TCTCTTGGAT	TCACATGATA	CAGAGCGAAT	CCTGTGGACG	GCCAATGAAG	1920
ATGTTCAACT	GGTTAAATCA	GCCTTAGCCT	TTCTCTTTTT	ACAAAAAGGA	ACACCGTGCA	1980
TTTATTACGG	AACCGAGCTA	GCCTTGACTG	GAGGACCAGA	TCCAGATTGT	CGTCGTTGTA	2040
TGCCTTGGGA	ACGTGTATCA	AGTGACAATG	ATATGCTGAA	CTTTATGAAG	AGGCTGATTA	2100

516 AAATTCGGAA ATACGCGTCA GTAATCATTT CGCATGGCAA GTATAGCCTT CAAGAAATCA 2160 ACTCTGATCT AGTAGCTCTG GAATGGAAAT ACGAAGGACG GATCCTCAAA GCAATATTCA 2220 ACCAATCAAC AGAAGATTAT CTTTTAGAGA AAGAAGCAGT AGCACTAGCA AGCAATTGCC 2280 AAGAATTGGA TAATCAGCTT GTCATCTCTC CAGATGGATT TATGATTTTC TAAAAACTAG 2340 TTGATGAAGA TTATGGTACA TTTCATACCT TATATAGTAT AATAAGGCTA GTTACTAAAC 2400 TTGTAAAGGA GAACTTAAAT GAATTGTAGA GGACATGAAA CAAGACAAAG AATTGTTAGA 2460 GATTTTGAAG TTCAGCCTAA AGCACATATT AAGCTGTTAG CAAATCAACA AAAACATAGT 2520 GATGCAGGAG CAACTATTGA AGATGAATAT TATGTATTTA TCGCTGAGAG TAAAATTGAT 2580 GGCAAGAAGG AAGTTATTCA GTGTTGCATG GGTGCGGCAA GGGATTTTTT AGAACTAATT 2640 AATCACAAAG GGCTACCTCT TTTTAATCCG CTTGTAGGTG ATTCTCATGT AAATAATAGA 2700 CAAGAATATG ACAATACAGG GAGTGGAAAT TTATAACCTG AAAAGTGGAA TGAAACTGCA 2760 AAGCAGCTTT ATAATGCTAT AATGTGGTTG ATTATTTTAT GGAATGCTAA GCCGGATACA 2820 CCTTTATTTA ATTTTAAAGA CGAAGTAATT AAGTATAAAA CATATGAGCC TTTTGAAAGC 2880 AGTATAAAA GAGTAAATAC TACTATAAAG AATGGTAGTA AAGGGAAAAC TCTGACTGAG 2940 ATGATTAATG GCTACAGAGC GGATAACGAT ATTAGAGATG AAATTTGTAA CTTTAATATT 3000 CTGAAAAATA AAATTCGTGA TATGAAAAAC CAACAAGGAA ATACAATGGA ATCTTACTTT 3060 TAGTTATTGT TGAATTTTGG GTATTCTATA AAATATCCTA ATTGAGATTT AAATAGTAGA 3120 CTATACAATA TAGTTAAAAT ATCAGTAAAA ACAACACTTT ATTGAGGTAT TGGATACGCT 3180 TTGCTAATAG CCTAATAATC ACATGTGGAG TGTTGCTACA ACGAAAAAGG TGATAATCCT 3240 TGATTTCAAG CTATTTTATA AGCATTTTGT CTTTGTAGAT AAAGGCAATT TTGACAATAA 3300 AAATCCTAAA AGGTGAATCG TTATAGATGT ATTTGTAGAT ATCGTTTGCG CATCGAAAAA 3360 ATTAATACAA GAATAAATAT TTATAGCTCT TTAGGTGACT TTTATAGAAG TAAAGTTTAG 3420 GATAGAAAAA CAAGAAATAA CGCACCATTT TTGGTGCGTT ATGCTTTTTT ATGCTATAAT 3480 GGATTTATAA AAATAAAGGA GTTTGCTATG ATTGGAAAGA ACATAAAATC CTTGCGTAAA 3540 ACACATGACT TAACACAACT CGAATTTGCA CGGATTGTAG GTATTTCACG AAATAGTCTG 3600 AGTCGTTATG AAAATGGAAC GAGTTCAGTC TCTACCGAAT TAATAGACAT CATTTGTCAG 3660 AAGTTTAATG TATCTTATGT CGATATTGTA GGAGAAGATA AAATGCTCAA TCCTGTTGAA 3720 GATTATGAAT TGACTTTAAA AATTGAAATT GTGAAAGAAA GAGGTGCTAA TCTATTATCT 3780 CGACTCTATC GTTATCAAGA TAGTCAGGGA ATTAGCATTG ATGATGAGTC TAATCCTTGG 3840 ATTTTAATGA GTGATGATCT ATCTGATTTG ATTCATACGA ATATCTATCT AGTAGAAACT 3900

TTTGATGAAA	TAGAGAGATA	TAGTGGCTAT	TTGGATGGAA	TTGAACGTAT	GTTAGAGATA	3960
TCTGAAAAAC	GGATGGTGGC	CTAATGGAAA	TCCAAGATTA	TACTGATAGT	GAATTCAAAC	4020
ATGCTTTAGC	AAGGAATCTT	CGTTCACTGA	CAAGAGGAAA	AAAGTCCAGT	AAGCAACCTA	4080
TAGCGATTTT	GCTTGGAGGG	CAAAGTGGTG	CCGGTAAGAC	TACAATTCAT	CGTATTAAAC	4140
AGAAAGAATT	TCAAGGAAAT	ATTGTTATCA	TAGATGGTGA	TAGTTTTCGT	TCTCAGCATC	4200
CACACTATTT	AGAACTGCAG	CAAGAATATG	GCAAAGACAG	TGTAGAATAT	ACCAAAGATT	4260
TTGCAGGAAA	AATGGTAGAG	TCTTTAGTAA	CAAAATTGAG	TAGTTTGAGA	TACAATCTTT	4320
TGATAGAGGG	AACTTTACGA	ACAGTTGATG	TTCCAAAGAA	AACAGCACAA	CTCTTGAAAA	4380
ATAAGGGATA	TGAAGTACAA	TTGGCCTTAA	TTGCGACAAA	GCCTGAATTG	TCGTATCTAA	4440
GTACTCTTAT	CCGTTATGAA	GAACTGTACA	TTATCAATCC	AAATCAAGCA	CGCGCAACTC	4500
CAAAAGAACA	TCATGATTTC	ATTGTAAATC	ATCTAGTTGA	TAACACACGA	AAATTGGAAG	4560
AACTAGCTAT	CTTTGAAAGA	ATTCAAATTT	ACCAACGAGA	TAGAAGTTGT	GTATATGATT	4620
CAAAAGAAAA	TACAACTTCA	GCAGCAGATG	TTCTTCAAGA	GTTACTCTTT	GGGGAGTGGA	4680
GTCAGGTAGA	GAAGGAGATG	TTGCAGGTGG	GGGAAAAGAG	ACTTAATGAA	TTACTTGAAA	4740
AATAAACAAT	TGATATTTT	AGGAGAATAG	AAATGAGAGG	GTTTAATAAC	AAGATAAAGT	4800
CTGTTTATCA	AGAACTAACA	AATTCCAAAG	AGAAATTCGG	TAGCTTTCAC	AAGACTTTAA	4860
TTCATTTGCA	TACACCTGTT	TCTTATGATT	ACAAGCTATT	TTCTAATTGG	ACTGCAACGA	4920
AATATAGAAA	AATTACTGAA	GATGAACTAT	ATGATATATT	TTTTGAAAAT	AAGAAAATAA	4980
AAGTTGATAA	GACAATTTTT	TTTAGTAATT	TTGATAAGGT	TGTTTTTCT	AGTTCAAAAG	5040
AATATATTAG	TTTTCTTATG	TTAGCAGAGG	CAATCATAAA	AAATGGAATA	GAAATAGTTG	5100
TAGTAACTGA	TCATAATACT	ACCAAAGGTA	TTAAAAAGTT	ACAAATGGCA	GTCTCAATCA	5160
TAATGAAAAA	TTATCCGATT	TATGATATAC	ATCCTCATAT	TTTACATGGA	GTAGAAATTA	5220
GTGCAGCAGA	TAAATTGCAT	ATTGTATGTA	TATATGATTA	TGAACAAGAA	TCATGGGTTA	5280
ATCAATGGTT	AAGTGAAAAT	ATTATAAGTG	AGAAAGATGG	AAGTTATCAA	CATTCACTGA	5340
CTATAATGAA	GGATTTCAAT	AATCAAAAAA	TAGTTAACTA	TATTGCTCAT	TTCAATAGTT	5400
ATGACATTTT	GAAAAAAGGT	TCTCACTTAT	CAGGTGCATA	TAAACGAAAA	ATTTTTTCTA	5460
AAGAAAATAC	ACGATTTTGG	AGTTTAATAT	TAACTCGAAA	GAATCTTCGC	AACAACTTGA	5520
TATTCTCTAT	AAAGAAGTTG	GTGTATTAAG	TTTGGGACAA	AAAGTTGTAG	CCATGCTTGA	5580
TTTTTTATTA	GCATATAGTG	ATTATTCTAA	AGACTTCAGA	CCATTGATTA	TTGATCAGCC	5640

TGAAGACAAT	CTAGACAATC	GTTATATTTA	518 CAGGCATTTA	GTTCAGCAGT	TTAGAGATGT	5700
GAAAGCTCAA	CGTCAAATTA	TTTTAGCAAC	ACATAATGCT	ACAATTGTAA	САААТТСТАТ	5760
GACAGATCAA	GTTGTTATTA	TGGAGTCAGA	TGGAGTTAAC	GGATGGATTG	AATCACAGGG	5820
ATATGTTAGT	GAAAAATATA	таааааатса	TATCATCAAT	CAATTAGAGG	GAGGAAAAGA	5880
TTCCTTCAAG	CATAAAATGT	CTATATATGA	GACGGCTTTA	TCAGAGTAGA	GTCAGAAAAA	5940
GTAGGTTAGA	AATTTAGCCT	ACTTTTTTCT	TTGTCCGACA	GGCATAGTGT	ACATCTGAGG	6000
TCCAAGTCCT	CTGTGGATAT	TTGCTGCAGA	TGAAACCAAT	AGCGACTCCT	AAGCCTGAAT	6060
ATCGTGAGGT	AGGGGGGATA	GGAAGGAATT	AGCGAAATCA	AGGTTCTACA	AACAGAATCG	6120
TGACTTGAAG	CCATATATAG	CGGATGAGGA	АСТСТААААТ	CCAAATAGGT	GTCGTAACCT	6180
ATATACGTAA	ATTACGAGAG	TAAACTAGGA	AAGATGTACG	GCTTATTCCG	TGAGCGTTTA	6240
GGACGTAGTA	CAACGAATCA	TGGGAGTCAG	CTGAACACAT	AGTATTGAAG	AAATTTCTGT	6300
AATGGAAATG	GAGCGAAGAA	GTGAACAATT	AAATGAATAC	CTCTCTAATT	AAATTTGTCA	6360
ATTCTAATTC	CTGGTATGAA	AAGACAGTGA	CCTGAAAATG	TAAACGATGG	GAGCTGATCA	6420
TAAATATAGG	ACGGTACATG	CAGTGGTGTT	AGAGATTAGT	CCTTACTTGA	TTTGTGATAA	6480
CTTCCCCAAA	TTTCTTCTGC	TATACTTTTC	TCAACTTTTA	AAAATCCAAC	TAAGAATTTT	6540
ACCTGGGGGT	TTGGGGGCGG	AGCACTAAGT	TATCTTATCG	TTAGCTGTCA	AAACTGGTAG	6600
GTTTTGATAG	GCTGGCGATA	TGATTTTTGG	GATATTGTGG	ACACAATATC	TGAGCTCGCA	6660
AAGCCTTACA	AGAATGAAAA	TCAGTTGTTG	GAAAAGTGTA	CTGACATTGT	ATGGTAGCTC	6720
ACATTGTCAG	TACAAGTATT	TTGGAAAGGA	AGTAGCAGTA	TGAAACGAGA	TGTGCGTGAT	6780
ATTCGGAAAC	AATTTCGTTT	AACAGAAGCA	GAAGAAAAGC	AAATTCTAGC	TTTGATGAGA	6840
GAGCGGGGAG	AGACTAATTT	CTCTGATTTT	CTTCGTAAAA	GTTTACTTTC	CTCTGATTTA	6900
CAAAAACAGA	TGGAGACATG	GTTTGCCCTC	TGGCAATCCC	AAAAACTAGA	ACAAATCAGT	6960
CGTGACGTTC	ATGAAGTTTT	AATCTTGGCA	CAGTCAGAAC	GTCAAGTCAC	CCAAGAGCAT	7020
GTATCTATTC	TCTTAACGTG	CGTGCAGGAA	TTGATTCAAG	AGGTTGCAAA	CACCATACCC	7080
CTCAGTAAAG	AATTTCGTGA	GAAGTACATG	AGGTAAGCAC	ATGGAACATC	GTTACCGAAC	7140
CAATCTCAAG	AAAGTGTTTT	TGTCTGATAG	TGAGTTGAAC	СААСТАААТА	TAAATATCGA	7200
TCAAAGTGGT	TGTAAATCCT	TTTCTGAATA	TGCGAGACGA	ACTCTACTCG	ATCCTGGTAT	7260
GAATTTTATC	ACGATTGACA	CAAACGGTTA	CCAAGATTTA	GTGTTTGAGT	TAAAGAGGAT	7320
TGGCAATAAT	ATCAACCAGA	TTGCTCGAAG	TGTTAATCAA	TCTCAGTTAA	TTTCTGGTGA	7380
AGAATTGCAG	GAGTTGAAAA	AAGGAATTGG	TGAATTGATA	AAAGAAGTTG	ATAAGGAATT	7440

TAATCTGCAA	GCGCAGAAGC	TAAAGGAGTT	CCATGGTCAT	CACTAAACAC	TTTGCCATTC	7500
ACGGAAAGAG	TTACCGCAGA	AAGCTTATCA	AGTACATTCT	CAATCCTGAG	AAAACCAATA	7560
ATCTTGCCTT	GGTGTCGGAC	TATGGCATGA	AGAATTTTCT	GGACTTTCCT	AGCTATGAGG	7620
AAATGGTGCA	GATGTATCAT	GAAAATTTCA	TCAGCAACGA	TACGCTTTAC	GATTTTCGCC	7680
ACGACAGGAT	GGAAGAAAAT	CAACGAAAAA	TACACGCTCA	CCACATCATT	CAGTCTTTCT	7740
CGCCAGAGGA	TCATATCACT	CCTGAACAAA	TCAATCGGAT	AGGTTATGAG	ACTGTGAAGG	7800
AATTAACTGG	TGGCAAATTT	CGTTTTATCG	TTGCGACCCA	TGTTGATAAA	GACCACCTGC	7860
ACAATCACAT	CATTATCAAT	TCAGTAGATA	GCAATTCTGA	CAAAAAGCTC	AAGTGGGACT	7920
ACAAGGTGGA	GCGAAATCTT	CGCATGATTT	CTGACCGTTT	ТТСТААААТС	GCAGGTGCTA	7980
AAATCATTGA	GAACCGCTAT	TCTCACCAGC	GGTATGAAGT	CTATCGTAAG	ACTAATCACA	8040
AGTATGAACT	CAAGCAGCGA	CTCTATTTTT	TGATGGAACA	TTCTAGGGAC	TTTGAGGATT	8100
TCAAAAAGAA	TGCTCCGCTA	CTACATGTGG	AGATGGATTT	CCGTCACAAG	CATGCCACCT	8160
ТТТТТАТТАС	GGACTCAACT	ATGAAACAGG	TGGTGCGTGG	CAAGCAACTC	AATCGCAAGC	8220
AGCCTTACAC	AGAAGAATTT	TTTAAGAACT	ACTTTGCCAA	AAGAGAAATA	GAAAGTCTCA	8280
TGGAATTTTT	ATTGCTGAAA	GTTGAGAATA	TGGATGATTT	ACTTCAGAAA	GCAAAACTTT	8340
TTGGACTAAC	TATCAATCCT	AAACAAAAGC	ATGTTTCTTT	TCAATTTGCA	GGAGTGGAGG	8400
TAAAGGAGAC	AGAGCTAGAC	CAGAAAAATC	TTTATGATGT	AGAGTTTTTC	CAAGATTATT	8460
TTAAAAATAG	AAAAGATTGG	CAAGCTCCAG	AAACTGAGGA	TTTCGTTCAA	CTTTATCAAG	8520
AAGAAAAGTT	ATCCAAAGAA	AAAGAACTTC	CAAGCGATGA	GAAGTTCTGG	GAGTCCTATC	8580
AAGAGTTCAA	GAGTAACAGA	GATGCCGTTC	ATGAATTTGA	GGTGGAGTTG	TCACTCAATC	8640
AAATTGAAAA	AGTAGTGGAT	GATGGAATTT	ACGTCAAGGT	CAAGTTTGGT	ATTCGTCAGG	8700
AGGGACTTAT	CTTTGTGCCG	AACATGCAGC	TTGATATGGA	AGAGGATAAG	GTGAAGGTTT	8760
TCATCAGGGA	AACCAGCTCC	TACTATGTCT	ACCACAAAGA	CGCTGCCGAG	AAAAATTGTT	8820
ATATGAAAGG	TCGAACCTTA	ATTAGACAGT	TCAGCTATGA	AAATCAAACC	ATTCCATTAC	8880
GCAGAAAAGC	GACAGTCGAT	ATGATTAAAG	AGAAGATTGC	GGAAGTGGAT	GCTTTGATTG	8940
AACTGGAAGT	AGAAAATCAA	TCTTATGTCA	CGATTAAAGA	TGAGTTAGTG	CATGAACTAG	9000
CAGCGTCTGA	ATTGAGAATC	AATGAGTTGC	AAGAACGAAT	GTCAACCTTG	AATCAAGTAG	9060
CAGAATATCT	ACTGGCTTCA	GTTGAAAGTA	AGCAAGAAAT	GAAATTAAAT	CTTTCAAAAC	9120
TGAATATAAC	TGAGAATATC	AGTGCTAATA	TTGTTGAGAA	AAAATTGAAG	AGCCTGGGGA	9180

520 ATCAACTGGA ATTGGAAAGG GGCAGGTATG AAAAGATGGT AGT

9223

(2) INFORMATION FOR SEQ ID NO: 60:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6827 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:

TCTGCTGGCT	ACCATCATCT	GACTTGGGCA	AGACCAAAGT	CTTAGTTACA	ACTGTATTCT	60
TCTCAGCATT	TTCAATAACT	GGCAATGCCG	ACTGAAGCGT	ATCTTTTTCT	GTTTTTGTAG	120
CTGGTCCAGT	TTCTTTTTC	TGTCCGCAAC	CAACCAGGAC	AAAAAGGAAA	GCTAGACTAA	180
CAAGAACTAT	TTTTTTCATT	TCTTTCTTCT	TTCTTTTTGA	ААТТААААТА	GAATAAGACT	240
GGGAAGTGCT	CCCAGCCTTG	ATGTTTATAG	AGCTGCACGC	AAACGTGCTT	CTGCATTTTC	300
TACATTACGG	ACAGAGCGTG	GTAGGAAGGC	ACGAATATCG	TCTTCCTTGT	AGCCAACTTG	360
CAGGCGTTTT	TCATCTACAA	GGATTGGGCT	CTTTAAAATT	CTCGGTGTTT	CCATAATCAG	420
ATTGAGAACT	TCATTGACAC	TCAAATCTTC	AATATCCACT	CCAAGGGCTT	TGGCATAGCG	480
ATTTTTAGAC	GAAACGATGC	TGGCTATTCC	GTTATCTGTT	TTGGTTAGAA	TATCCAGTAA	540
TTCTTCTCTC	GTAATTCCTT	CTTTACCAAG	GTTTTGTTCT	TTATAACTTA	ACTGGTGGGC	600
ATTGAGCCAG	GTTTTTGCTT	TTTTACAGCT	AGTACAACTT	GAGACTGTAT	AAATTTTAAT	660
CATGTACCTA	CCCCTTTCGC	TACATGTTAC	TATCAGTTTA	GTCTATTATA	CCATAAAAAA	720
CATCCGACTT	GCGACCTATT	ТТТААТТТТ	TTTGACTTTT	TTCGTCATTT	TCGTACTTTT	780
TTCTTGACAA	ACAACTAAAT	GACTATCAAC	TCTTTTGGAG	CTAGGGTCAA	TAATTCACAA	840
CCTGTCTCTG	TAATCAGGAT	ATCATCCTCG	ATACGAACGC	CATATTTGCC	TTCGATATAG	900
ATACCTGGTT	CATCGGTCAA	GGCCATACCT	GTCTTAATAG	TTTCTGTAGA	AGTCTGACTA	960
AAGTAGGGTT	CCTCATGGAT	ATCCAGACCA	ATACCGTGGC	CAATGCCGTG	AGTAAAGTAG	1020
TCACCATAAC	CTGCCTCAAT	GATAATATCA	CGAGGGATTT	TGTCAAAGTC	ACGGAAACCT	1080
AAGCCTGCCT	TAGCTTGGTC	AATCAAGGCT	TGGTTAGCTT	TTAGAACCGT	ATTGTAAATC	1140
TCTGCCTGCT	CATCGCTAAC	ATGCCCTAGA	TAGATAGTCC	GGGTCATATC	ACTGACATAG	1200
TGGTCATAGA	GACAGCCGAA	GTCCATGGTG	ATGGCTTCTC	CCAACTCCAC	TGGTTTGTGC	1260
ATTGGATGGG	CATGGGGTTT	AGAAGAATTG	ATACCGCTAG	CTAGGATCGT	ATCAAAAGAT	1320
AAGCCAGATG	CTCCCAACTC	ACGCATGCGG	AAATCAAGGA	AGTTGGCAAT	CTCAATTTCA	1380

GTTTTTCCTG	GTTTGATAAA	GTCAAGCGCA	TCGCGGAAAG	CTTGGTCTGA	GATAGAACAA	1440
GCCTTGCGAA	TCGCTGCAAT	CTCTGCCTCA	TCCTTAATCA	TACGAAGACC	TTCCACAAAC	1500
TGAGTTTGTG	GAAGCAAGTT	CAAACCTGCA	AAAGCTGCCT	GCATACGGTG	GTAATAAGAC	1560
ACTGAAATCT	CATCTTCAAA	ACCGATACGA	GTCAAGCCCA	TGTCCTTAAC	AATTCCTGCA	1620
ATGACAGCCA	ATTCATCACG	ATCAGCCACA	ATCTCAAAAC	CACTGGTTTC	TTGCTTAGCT	1680
GCGATGATAT	AGCGAGAGTC	TGTCACTAAG	ACCTGACGGT	CACGACTGAT	AAAGACTGTT	1740
CCGTTTGAGC	CCCAAAAACC	AGTCAAATAA	TAGACGTTTT	TAAGATTGTT	GATGATGATA	1800
CCATCTAGTT	CTTTTTCTTG	CATTTTAGCT	AGAAATGCTT	GTACGCGTTT	ATTCATGATG	1860
TAACTTTCCT	TTCAAATAGT	GTCCTGTATA	GCTGGCTTCG	TTGGCAGCTA	CTTCTTCTGG	1920
AGTTCCTGTT	ACGATGATGG	TTCCACCACC	GACACCGCCC	TCAGGTCCCA	AGTCAATGAT	1980
ATGGTCTGCC	GTCTTGATAA	CATCCAGATT	GTGCTCGATG	ACGAGGACTG	TATTGCCATC	2040
GTCTACAAAG	CGAGCTAAAA	CCTTGAGCAG	GCGAGCAATG	TCCTCTGTAT	GAAGCCCTGT	2100
CGTCGGCTCA	TCCAGAATGT	AGAAAGATTT	TCCTGTCGAT	CGTTTGTGGA	GTTCGCTAGC	2160
TAACTTCATA	CGTTGGGCTT	CTCCCCCAGA	AAGGGTGGTA	GCTGGCTGTC	CCAAGGTCAC	2220
ATAGCCTAGC	CCTACATCCT	TGATGGTCTG	GAGTTTGCGT	TGAATTTTCG	GAATGTGTTG	2280
GAAAAATTCT	ACCGCATCGT	TGACCGTCAT	ATCCAAGACC	TGCGAAATAT	TCTTTTCCTT	2340
GTAGTGAACT	TCTAGGGTTT	CACTGTTATA	GCGGGTTCCG	TGGCAAACTT	CACAAGCCAC	2400
ATAAACATCT	GGCAAGAAGT	GCATCTCAAT	CTTGATAATC	CCGTCACCTG	AGCAAGCTTC	2460
ACAGCGACCT	CCCTTGACGT	TGAAACTGAA	GCGCCCCTTC	TTGTAGCCTC	GAATCTTGGC	2520
TTCATTTGTC	TGAGCAAAAA	GGTCACGTAT	ATCGTCAAAA	ACTCCTGTAT	AGGTAGCTGG	2580
GTTAGACCTC	GGCGTCCGTC	CGATAGGGCT	CTGGTCAATA	TCAATCAAAC	GGTCGACATG	2640
CTCAATCCCT	GTAATAGTCT	TAAACTTACC	AGGTTTGTCT	GAATTACGGT	TGAGCTTCTG	2700
GGCAATGGCT	TTTTTGAGAA	TGCTGTTGAT	TAGAGTCGAT	TTCCCTGAAC	CCGACACACC	2760
TGTCACTGCG	ATAAATTTTC	CTAGTGGAAA	GCGAGCCGTG	ACATTTTGCA	AGTTGTTCTC	2820
ACGCGCTCCT	ATCACTTCAA	TAAAACGACC	ATTTCCGACA	CGGCGCTCTT	CTGGTACTGG	2880
GATGACACGT	TTGCCTGACA	AGTACTGACC	TGTGATAGAC	TTGCTGTTGC	GAGCCACTTG	2940
CTTAGGTGTA	CCTGCTGCAA	CAATCTCACC	ACCAAAAACA	CCGGCACCAG	GACCAACGTC	3000
AATCAGATAA	TCAGCCTCAC	GCATGGTATC	TTCGTCGTGT	TCCACCACGA	TAAGAGTATT	3060
GCCCAAGTCA	CGCATCTTTT	TCAGACTGGC	AATCAGGCGA	TCATTGTCCC	TCTGGTGAAG	3120

		522			
GGCTCGTCTA	GGATATAGAG	GACACCTGAT	AGGTTGGAAC	CAATCTGGGT	3180
ATGCGCTGAC	TTTCCCCACC	TGAAAGGGTT	CCTGCTGAAC	GTGACAGGGT	3240
AGACCCACAT	TATTAAGGAA	GGTCAAACGA	TCCTTGATTT	CCTTGAGAAT	3300
ATGA: LGGCTT	CATTTTCAGA	CAAAGTTAAC	TGGCTCACCA	AGTCCAAGTG	3360
GACAGGTCTG	AGATTTCTCC	AATATGTGGC	CCTTGCTGGC	CGCCCACACG	3420
GCCTGGTCAT	TGAGACGATA	GCCTTGACAG	GTTCCGCAGG	TCAGCTCATT	3480
CGCATCTGAG	TGCGAGTGTA	ATCGCTATTG	GTTTCATGGT	AACGACGTTT	3540
ATAACTCCCT	CAAACGGAAT	GTCGATATCG	CGCACGCCAC	CAAATTCATT	3600
AAATGGAATT	CCTTACCATC	TGACCCATAG	AGAATCAAGT	TCTTATCTTC	3660
TCCTCAAAAG	GCTTATCCAT	AGCCACTCCA	AAGACTTTCA	TGGCCTGCTC	3720
GGATAGTAGT	TGGATGAGAT	AGGATTCCAA	GGTGCTAGCG	CTCCCTCACG	3780
CTAGCATCTG	GCACTACCAA	ATCAGTATCC	ACCTCCAGCT	TGATGCCCAA	3840
TCACTACAAG	AGCCAAAAGG	AGCATTGAAA	GAAAAGAGAC	GAGGCTCTAA	3900
GTAAAACCAC	AAACTGGACA	GGCATAATGC	TCAGAGAACA	ACAACTCCGA	3960
GTGTCGATAA	TGACATAACC	TTCTGCAATA	CGAAGGCAG	CCTCAATGGA	4020
CGACTACGAA	TGCCCTCCTT	GATAACAATA	CGGTCAACCA	CGACATCGAT	4080
TTGCTCTTAG	ACAACTCTGG	CACTTCGGTC	ACATCATAGA	CTTCCCCATC	4140
CGAACATACC	CGTCTTTCTG	AACCTTCTCG	ATAACACTCT	TATGTTGGCC	4200
CGGATGACAG	GAGCCAAGAT	CTGCAAGCGC	TGGCGTTCAG	GTAACTCCAA	4260
ACGATTTGCT	CCACAGAAGA	AGCATTGATA	GCTCCATGTC	CGTTGATACA	4320
CCCACACGTG	CGTAGAGGAG	ACGCAGATAG	TCATTGATTT	CAGTCGTCGT	4380
GAGCGAGGAT	TTTTACTAGT	CGTTTTCTGG	TCGATGGAAA	TAGCTGGGCT	4440
ATGGCATCTA	CATCTGGTTT	TTCCATATTT	CCCAAGAACT	GACGAGCGTA	4500
CTCTCTACAT	AGCGACGTTG	TCCCTCCGCA	TAGAGAGTAT	CAAAAGCCAG	4560
CCTGAACCTG	ACAAGCCAGT	CACGACAACC	AACTTGTCTC	GCGGAATCTC	4620
TTTTTTTAAAT	TATGGGCACG	CGCCCCATGA	ATGACAATTT	TATCTTGCAT	4680
TCTAGTCCAT	TATTGCTTAC	CATTATACCA	AAAAAAGTGA	GATTCTATTA	4740
CGATTTTGTA	GTATAATAGT	ACAGTGTGAA	AAAATCTGAA	AAATGAGAAA	4800
TATGAAACAA	GTTTTTCTCT	CTACAACAAC	TGAATTTAAA	GAGATCGATA	4860
GGGTACTTGG	ATCAATCTCG	TCAATCCGAC	TCAAAATGAA	TCACTCGAAA	4920
	ATGCGCTGAC AGACCCACAT ATGA:IGGCTT GACAGGTCTG GCCTGGTCAT CGCATCTGAG ATAACTCCCT AAATGGAATT TCCTCAAAAG GGATAGTAGT CTAGCATCAGA ATGCATCAGA TTGCTCTTAG CGAACATACC CGGATGACAG ACGATTTGCT CCCACACGTG GAGCGAGGAT ATGGCATCTA CTCTCTACAT CTCTCTACAT CTCTCTACAT CTCTCTACAT CTCTCTACAT CTCTCTACAT CCTGAACCTG TTTTTTAAAT TCTAGTCCAT CGATTTGTA	ATGCGCTGAC TATTCCCCACC AGACCCACAT TATTAAGGAA ATGA'IGGCTT CATTTTCAGA GACAGGTCTG AGATTTCTCC GCCTGGTCAT TGAGACGATA CGCATCTGAG TGCGAGTGTA AAATGGAATT CCTTACCATC TCCTCAAAAG GCTTATCCAT GGATAGTAGT TGGATGAGAT CTAGCATCTG GCACTACAA TCACTACAAG AGCCAAAAGG GTAAAACCAC AAACTGGACA GTGTCGATAA TGGCCTCTT TTGCTCTTAG ACAACTCTGG CGAACATACC CGTCTTTCTG CGGATGACAG GAGCCAAGAT ACGATTTGCT CCACAGAAGA CCCACACGTG CGTAGAGGAG GAGCGAGGAT TTTTACTAGT ATGGCATCTA AGCGACGTTG CTTTTTAAAT AGCGACGTTG TTTTTTAAAT TATGGGCACG TCTAGTCAT GTTTTTCTC CGATTTGCT TATTGCTTAC CGATTTTGCT TATTGCTTAC CCTGAACCTG ACAAGCCAGT TTTTTTAAAT TATTGCTTAC CGATTTTGT TATTGCTTAC CGATTTTGT GTTTTTCTCT	GGCTCGTCTA GGATATAGAG GACACCTGAT ATGCGCTGAC TTTCCCCACC TGAAAGGGTT AGACCCACAT TATTAAGGAA GGTCAAACGA ATGATGGCTT CATTTCAGA CAAAGTTAAC GACAGGTCTG AGATTTCTCC AATATGTGGC GCCTGGTCAT TGAGACGATA GCCTTGACAG CGCATCTGAG TGCGAGTGTA ATCGCTATTG ATAACTCCCT CAAACGGAAT GTCGATATCG AAATGGAATT CCTTACCAT TGACCCATAG GGATAGTAGT TGGATGAGAT AGCACTCCA GGATAGTAGT TGGATGAGAT AGCATACCA GTAACATAGA GACATACCAA ATCAGTATCCA GTAAAAACCAC AAACTGGACA AGCATAATGC GTGCTCGATAA TGCCCTCCTT GATAAACAATA CGGATACCAA AACCTTCCGGT AACCTTCCGGT CGGATGACAG AGCCAAGAT CTGCAAGAGA CGGATGACAG GACCAAGAGA AGCATTGATA CCCACACGTG CACACAGAGAGA AGCATTGATA CCCACACAGGAT TTTTACTAGT CGTTTTCTGG ACGCAGAGAT TTTCCATATTT CCTC	GGCTCGTCTAGGATATAGAGGACACTGATAGGTTGGAACATGCGCTGACTTTCCCCACCTGAAAGGGTTCCTGCTGAACAGACCCACATTATTAAGGAAGGTCAAACGATCCTTGATTTATGATGGCTTCATTTTCAGACAAAGTTAACTGGCTCACCAGACAGGTCTGAGATTTCTCCAATATGTGGCCCTTGCTGGCGCCTGGTCATTGAGACGATAGCCTTGACAGGTTCCGCAGGCGCATCTGACTGCGAGTGTAATCGCTATTCGTTTCATGGTATAACTCCCTCAAACGGAATGTCGATATCGGGCACGCCACAAATGGAATTCCTTACCATCTGACCCATAGAGAATCAAGTTCCTCAAAAGGCTTATCCATAGCCACTCCAAAGACTTTCAGGATAGTAGTTGGATGAGATAGCATCCAAAGCTCCAGCTTCACTACAAAAGCCAAAAGGAGCATTACAAGGTGCTAGCGCTAGCATCACAAACTGGACAAGCATAATACTCAGAGGACAGTGTCGATAATGACCTACCAAAGCATAATGCTCAGAGGACACTGCATCACAATGCCCTCCTTGATAACAATACGGTCAACCACTGCATCACAAAGCCTACGACACATCATAGAACATCATAGACGGATGACAGGAGCCAAGATCTGCAAGCACACATCATAGACCGACAGATACCGTTTTCTGAACCTTCTGATAACACTCTCCGACAGATACCGTAGAGAGAACCTTCTCTGATAACACTCTCCGACAGGTCTGCAAGCAGTCGCTTCAGACATCATAGTCCGACAGGTCTGCAAGAGAACCTTCTTCTGTCGATGGAAAAAGGCAAGTTTTTACTAGTTCCCTCGCATAGAGAGTTCCTGAACCTACAAGCCAGTACCTCCCCATGAATGACAATTTCCTGAACCTAACAAGCCAGTCACGACAACCAACTTGTCT <t< td=""><td>522 ATGCCTGATC GARATARAGA GACACCTGATC CATGCTGAAC CATACTGGATC ATGCCCTGATC TTTCCCCACC TGAAAGGGTT CCTGCTGAAC GTGACAGGGTT AGACCCACAT TATTAAGGAA GGTCAAACGA TCCTTGATT CCTTGAGAAT ATGATGGCTT CATTTTCAGA CAAAGTTAAC TGGCTCACCA AGTCCAAAGG GCCGGGTCAT TGAGACGATA GCCTTGACAG GTTCCGCAGG TCAGCTCATT CGCATCTGAG TGCGAGTGTA ATCGCTATTG GTTCATGGG TCAGCTCATT AAAACGGAAT GTCGATATCG CGCACGCCAC CAAATTCATT AAATGGAAT CCTTACCAAC AGACATCACAC AAAGACTTCAC TCACTACACAC AGAATCAACAC TCACTACACAC AGAATCAACAC TCACTCACACAC AGAATCAACAC CTCCCTCACACAC AGAAAAGAACAC CACTCCACACACACACACACACACACACACACACACACA</td></t<>	522 ATGCCTGATC GARATARAGA GACACCTGATC CATGCTGAAC CATACTGGATC ATGCCCTGATC TTTCCCCACC TGAAAGGGTT CCTGCTGAAC GTGACAGGGTT AGACCCACAT TATTAAGGAA GGTCAAACGA TCCTTGATT CCTTGAGAAT ATGATGGCTT CATTTTCAGA CAAAGTTAAC TGGCTCACCA AGTCCAAAGG GCCGGGTCAT TGAGACGATA GCCTTGACAG GTTCCGCAGG TCAGCTCATT CGCATCTGAG TGCGAGTGTA ATCGCTATTG GTTCATGGG TCAGCTCATT AAAACGGAAT GTCGATATCG CGCACGCCAC CAAATTCATT AAATGGAAT CCTTACCAAC AGACATCACAC AAAGACTTCAC TCACTACACAC AGAATCAACAC TCACTACACAC AGAATCAACAC TCACTCACACAC AGAATCAACAC CTCCCTCACACAC AGAAAAGAACAC CACTCCACACACACACACACACACACACACACACACACA

TCGCCAACAC	CTTCGATATT	GATATTGCTG	ACCTTCGAGC	ACCGCTCGAT	GCGGAAGAAA	4980
TGTCTCGTAT	TACCATTGAA	GACGAGTATA	CCCTGATTAT	CGTAGACGTG	CCGGTCACGG	5040
AGGAAAGAAA	TAACCGCACC	TACTACGTAA	CCATCCCGCT	TGGTATTATC	ATCACTGAGG	5100
AAACCATTAT	CACTACGTGT	TTGGAACCAC	TACCTGTCCT	TGATGTCTTT	ATCAACCGTC	5160
GATTGCGTAA	TTTCTATACC	TTCATGCGTT	CACGTTTTAT	CTTTCAAATT	CTTTATCGCA	5220
ATGCAGAGCT	TTACCTAACA	GCCCTTCGTT	CAATCGACCG	CAAGAGTGAA	CAAATCGAAA	5280
GTCAACTGCA	TCAATCAACT	CGTAATGAAG	AATTGATTGA	GCTCATGGAA	TTGGAAAAA	5340
CTATCGTCTA	TTTCAAGGCC	TCCCTCAAAA	CAAATGAGCG	CGTGATTAAG	AAATTGACCA	5400
GTTCAACCAG	CAATATCAAG	AAATACCTTG	AGGACGAAGA	CCTGCTTGAA	GACACCCTGA	5460
TTGAAACCCA	ACAGGCCATC	GAGATGGCAG	ATATTTATGG	AAACGTCTTG	CATTCTATGA	5520
CAGAGACCTT	TGCCTCTATC	ATTTCTAACA	ACCAGAACAA	CATCATGAAA	ACCTTGGCCC	5580
TTGTGACCAT	CGTCATGTCC	ATCCCAACCA	TGGTCTTTTC	TGCCTACGGG	ATGAACTTTA	5640
AGGATAATGA	AATCCCCCTA	AACGGAGAGC	CAAATGCCTT	CTGGTTAATC	GTCTTTATCG	5700
CCTTTGCTAT	GAGTGTCTCG	CTCACTCTCT	ATCTCATCCA	TAAAAAATGG	TTCTAAGAGG	5760
AGTTCCTATG	TCTCAAATTG	ATCTACAAAA	ATTAACTAAG	AAAAACCAAG	AGTTTGTCCA	5820
CATTGCTACC	CAACAATTCA	TCAAAGATGG	GAAAACAGAC	GCTGAAATCC	AGACTATTTT	5880
TGAGGAAGTC	ATTCCCCAAA	TCCTTGAGGA	GCAATCTAAA	GGTACAACTG	CCCGTTCCCT	5940
ATACGGCGCA	CCAACTCATT	GGGCTCATAG	CTTCACTGTC	AAAGAGCAGT	ACGAAAAAGA	6000
GCATCCAAAA	GAAAATGATG	ACCCAAAACT	GATGATTATG	GACTCAGCTC	TTTTCATCAC	6060
TAGCCTCTTT	GCCCTTGTCA	GCGCCCTCAC	AACCTTCTTT	GCGGCAGACC	AAGCTTTCGG	6120
CTATGGATTG	ATTACTCTTC	TATTAGTTGG	ACTGGTTGGT	GGATTTGCCT	TCTACTTGAT	6180
GTACTACTTT	GTTTACCAAT	ACTATGGACC	AGATATGGAT	CGCAGTCAAC	GTCCACCTTT	6240
CTGGAAATCT	GTACTAGTTA	TCCTAGCTTC	TATGTTCCTT	TGGTTGCTTG	TCTTCTTTGC	6300
AACAAGCTTC	CTACCAGCTA	GCCTTAACCC	AGTACTGGAT	CCATTGCCAC	TAGCTATTAT	6360
TGGAGCAGCC	CTCCTAGCCC	TTCGCTTCTA	TCTCAAGAAA	CGCTTGAATA	TCCGTAGTGC	6420
AAGTGCAGGA	CCAACACGCT	ATCAAGAATA	AGAAAACGAT	AAAAGCAACT	GCAGGTGCGG	6480
TTGCTTTTTC	ACTTACTTTT	TTGAGTTATA	TTCAATGAAA	ATCAAAGAGC	AAACTAGGAA	6540
GCTAGCTGCA	GGTTGCTCAA	AGCACAGCTT	TGAGGTTGCA	GATAAAACTG	ACGTGGTTTG	6600
AAGAGATTTT	CGAAGAGTAT	TAAAAGTATT	CTTCTGAAAT	CCCACATAGC	TTTCTCTTAT	6660

524 ATTTTGTGAT AAAATAGGCT CAATCTATTT CTAGGAGGAT GAGATATGGT TI	FCTACTATT 6720					
GGTATTGTTA GTTTATCTAG TGGCATTATC GGAGAGGATT TTGTCAAACA CC	GAAGTGGAC 6780					
TTGGGTATCC AACGTCTCAA GGATCTGGGA CTCAATCCCA TCTTTTT	6827					
(2) INFORMATION FOR SEQ ID NO: 61:						
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11864 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61:						
CTGGCTAGTT GCATAGAGCA AAGTTGCTTC TTCATCAACA AAACCGTTCA TT	TTCAAAATA 60					
GGAAAGCAGC TCATCAGGAC TCTCCAAACG AATCCCTTTG TAATCCAGCT CA	AACTGCCAC 120					
CTCTTTCAAG GCTGCAAGAA GAAGTGTTCC CAGGCCCTGT CTCTGATGGT CA	AAACTCGAT 180					
GACTAAAGAA TGTACTTTTA GACATTGCGG ATTGTCTGAC TGGGGACTTG AT	TAAAATATA 240					
GCCTAAAAGT TGATTTTCAT CCCTAGCTAG AAGAAAGGTA TCCGCACACT TA	ACGGATACT 300					
TTCTTCTAAA ATATGGGAAA GTTGCTGCTT TTCAGCTGGA AAAGACGAGG TC	CTGAAGTGC 360					
CCCTATCTCA GGCAAATCAG ACTTGCTTGC CTGAATGATC TTAATTGGAA TT	TTCCATGGG 420					
AACATCCTAT TGAACATTGC TTGTCAAGTT AGACAAGAGA CGCTCAAATG AG	GTATTCATA 480					
GGTTTGGATG TCTCCTGCTC CCATAAAGAC GTAAACAGCA TTGTCATGGT CT	PAGGAGTGG 540					
AGAAACATTT TCAACAGTAA TCACTTGGTG TTTTTTGTTG ATTTTGTTGG CT	PAGGTCTTC 600					
TACCTTAACG TCACCATGAT CTACTTCACG AGCCGAGCCA TAAATTTGCG CT	PAGATAAAC 660					
AGCATCTGCT TGGTTTAAAG CATGGGCAAA GTCGTCCAAC AAGGCAATGG TT	CCTTGTAAA 720					

GGTATGCGGT TGAAAGACTG CTACAATTTC CTTGCTTGGG TATTTCTGAC GAGCCGCATC

CAAGGTCGCA ATAATTTCTG TTGGATGGTG GGCAAAGTCA TCGATAATCA CTGTATCATT

GACAATTTTC TCAGTGAAAC GACGTTTAAC ACCGGCAAAT GTTTTCAAGT GCTCACGCAC

CAAGTTCAAA TCAAATCCTG CTGTGTAAAG AAGACCAATA ACGGCTGTCG CATTCATGAT

ATTGTGACGA CCAAAGGTTG GAATGTGGAA TTGCCCCAAG TTTTGTCCAC GGAAATGAAC

GGTGAAGGTT GAACCAGTTA TTGAACGAAG AAGATCACTA GCTACAAAGT CATTGCCTTC

AGCTTCAAAA CCATAATAAT AAATTGGTGC ATCAGACGTA ATCTTACGCA ATTCAGCATC

TTCACCATAG ACAAAAAGAC CCTTGGTGAT TTGTTTGGCA TAGTCGTTAA AGGCATTAAA

AACATCCTCG AGACTTGTGA AATAATCTGG ATGGTCAAAG TCAATGTTGG TGATAATAGA

780

840

900

960

1020

1080

1140

1200

•	GTATTCTGGG	TGGTAAGGCA	TGAAGTGACG	CTCATATTCG	TCAGATTCAA	AGACAAAATA	1320
	TTTGGCATTG	GCCGAACCAC	GACCTGTCCC	ATCTCCAATC	AAGAAGCTGG	TATCTGTAAT	1380
•	GTGAGACAAG	ACATGAGACA	ACATACCTGT	CGTTGAAGTT	TTTCCATGTG	CTCCTGCTAC	1440
,	TCCCATGCTA	ACAAAGTCAC	GCATAAAGCT	ACCTAGAAAC	TCATGGTAAC	GTTTGTAGCT	1500
•	GATACCATTT	TGGTCCGCAT	AGGCAATTTC	GACGTTGTTA	TCTGGACGAA	AGGCATTTCC	1560
2	AGCGATAATT	TCCATATCAC	CGTCTAGATT	TTTTTCATCA	AAAGGAAGAA	TGGTAATTCC	1620
1	IGCCTGCTCA	AGACCGCGTT	GGGTAAAGTA	GTACTTTTCA	ACATCTGATC	CCTGAACCTT	1680
(GTGCCCCATC	TGGTGCAACA	TCAAGGCCAA	GGCACTCATC	CCTGATCCCT	TAATTCCGAT	1740
i	AAAATGATAT	GTCTTTGACA	TGTTTTCTCC	CCTATTCTGT	CATTCTGGTC	AGATTCAACT	1800
(CTTGGGCAAC	CCGACGTTCT	TGTTCTGTTT	GTTTACTTTT	TTTATTGTAG	ATTTGGCTCT	1860
•	rctttagaaa	ATCATAATTG	TTTTTCTTTG	GAGCAGGTGC	TGACACTTCT	TCATTCTTGG	1920
-	PAGGGATAGA	ATGAACTTCT	TCCGCCAAGA	TATAATGAGA	CTGGGTCAAT	TTTTGGCTAT	1980
ž	ATTTGACAAA	TTCACCAGGA	TTTTCCTTTT	GGAAAGGAGC	TGTCGGTTGA	TTGCCCTGTC	2040
	PAACTAGACT	GGGCTGAGAA	TGACGTCTCG	CAAGGCTGAA	ATCCTGAGTT	AGGTAGTTAG	2100
(CAGAGCGTTT	CTTTTTCAAG	TCCGCACGCG	CTTCTTCACG	CGCCACCTCC	GCATAGCTCT	2160
•	PTCCTTCTTT	TTTAACCCCT	AAAGGAGCCT	TTTTAGGTTT	TTCGACTTGC	TTTTCAATCG	2220
(GTTTTACTGG	TTTTTCTTCA	GCAATAGGAG	CCCATTCTAA	ATAATTTTTA	TCTCGATACT	2280
(CACCCTTGAT	ATTACTGATC	AGATCAGACT	CATCATAGAG	ATTCATGACT	GGCATTTCAG	2340
	TCAACATGAC	CTCGTCATCT	GACACCAATG	GAAATCGTTC	TTGTTTCATT	TTCTATTTCC	2400
•	TTTCAACACT	TCATTATAGC	GTATTGTCTT	GATTTTTCAA	GTGCTGGCTT	CAGAAATTCC	2460
(CAAAATTTCT	CTAATTTCTG	CTAGGGTCAG	ACTACCACGT	GACTCTGTGC	CGTCCAATAC	2520
7	TTGTGACACC	AGATGTTTCT	TTTGTTCTTG	GAGTTCCTGA	ATTTTTTCTT	CAATGGTTCC	2580
(CTTGGTCACC	AAGCGATAGA	CCTCAACCGT	TTCTTCCTGA	CCCATCCGAT	GGGCACGGCC	2640
2	ATGGCTTGC	GCTTCCACCG	CAGGATTCCA	CCAAAGGTCA	ACCAAGATCA	CTGTATCTGC	2700
2	ACCTGTCAGG	TTCAGACCGA	CCCCACCAGC	CTTGAGGGAA	ATCAGAAAGG	CATCTCTTTC	2760
7	CCTTGGTTA	AAGGCCTTGG	TCATGTCTTG	TCTTTCCTTG	GCTGGGGTTG	AACCCGTAAT	2820
7	TTAAAGGAA	GTCAGGCCCA	AGTCTGGCAG	TTCTTGTTCA	ATTTTTTCCA	ACATTCCCTT	2880
C	GAACTGAGAG	AAAATCAAGA	CACGGTGTCC	GCCGTCTGCC	ACCTGTACCA	GTAGGTCTCG	2940
C	SAGACTATCT	AGTTTGCCGC	TGGCTCCCTG	ATAATCTTCC	ATAAACAGGG	CAGGAGTGTC	3000

526 ACATATTTGA CGCAAGCGCA TCAAACCAGA TAAAATTTCC ACACGACTTC GCTGAAATTC 3060 CTGTTCTGAC ACTTGAGCCA GATGGTCTCG CATCTGTTGT AACTGGGCAA GGTAAATAGC 3120 CTTTTGCTGG TCTTCCAGTT CATTTTATA AACCACCTCA ATCAAGTCTG GCAATTCAGT 3180 CAGAACTTCT TCTTTCTTGC GTCGCATCAC GAAAGGCTTG ATAAACTGAG CCACTCGCTC 3240 TGCTGGCAAT TTCATAAATT CTTTCTTGCT TGGCAAAAGT CCAGGCATGA CGATTTGGAA 3300 AATAGACCAC AACTCACCCA GATGGTTTTC AATCGGAGTT CCTGACAAGG CAAAGACCGA 3360 CGGCACCACA AATTGTCTCA AGGTCTGGGC AATCTTGGTC TGGGCATTTT TCATGACCTG 3420 AGCCTCATCT AAGAAAAGGA AGTCAAAGGC CATCCCTTGA TAAAACTCAC TGTCCTGACG 3480 GAAGGTGGCA TAGCTAGTCA CATAGATTTG ATGGCTCTCG GCAAGAATCT CCTCACGACT 3540 TGCTTTCAAA CCATGAACAA CAGTCACATC CAACTGTGGA GCAAATTTCT GAAACTCATC 3600 TGCCCAGTTG TAAATCAAAC CCGACGGAGC GAGAATCAAA ACCCGACTTT CTTTTGTCAC 3660 TTGACTAGTC AAAAAAGCAA TGGTCTGAAG GGTTTTCCCA AGTCCCATAT CATCAGCCAA 3720 AATCCCACCA AAACCATAAT GATGGAGCAT CTGCAACCAG CCAATTCCCT TTTCCTGATA 3780 ATCTCGCAAG TCAGCCTTGA CCTGAGTTGC TTGCAAAGGA AAGTCCTCTG GATGCGTCAA 3840 ATCCTGGGCC AGATTCTGGA ATTCTTGTGA AAAAGAAACA CGGTCTCGCC CTTCAAAGAG 3900 ATGAGCTAAA CTGTAGGCCA AGGATTTCCG AGCCTGCAAG GTCCCATCTT TTAATTCAAA 3960 TTGCCCCAGT TCCTGTAGAT TTTGGCGAAT TTTCTTGGTT TCTTCATCGA AAAAGTAAAC 4020 TTGATTAGAC GAATCAATAT AAAAATCCTG ATTGGCAACC AAGGCCTGCA TGGCTTGGTC 4080 GATTTCCTCC TGGACAATAT TTTGAAAATC AAACTGGATT TCCAAGAGAC CTCCCTTGGA 4140 GGCAATCTGC ACCTGAGGAC TCGCTAGGCT ATAAAGCTCT TCTAGTTTAT CTGATAGGTC 4200 AACATGCCCG AGTTTTTCAA AGACTGGAAT GATATCATGA AAAAAATGAT AGACAGACTC 4260 CGCTTTTAAG GCCTGACGCC AAGATTGAAA ATCGGCCTCA AAGCCCGCAG CCAAACAGAC 4320 TTGGAAAATT CTTTCTTCTA AGTCTGCGTC ACTTGAAAAG GGTAATTCTT CTAGCTCTTG 4380 TCGGCTAGAT ACCTGTCTAT TTCCATAATC AAACTGAATT TCTAAACGAA TCCGATTATC 4440 TTCTTCCCTG TCAAAGTAAA AAGAGGGCGC AAAAGTTTTG ATTTGTAGAC GTTCTGGAGC 4500 TGAAACGGTG CCCATCTGGA TAAAAAGAGT CAGACAGGAG GCCAATTTGT CTCGATCACT 4560 GCTATCAAAT TGCAGGTATT TCTTTCCTTG TTGACCCACA GGTAACGCTT TAATTTCCTT 4620 GAGAAGACGC ATCTGCTGGT CTGTTAAAAA ATAAACCTGA CCTTTATGGA AAAGTACTGC 4680 TCCCTGATAA AAGACATTGA CCCTAGGACT CTCACTGATT TCCATTTCAA AATAATCCGA 4740 GTATTCTGTT ACTGTAAAGG CAAATAGATT GGCATCAGCA TGCATATCCT GAAAAAGCAG 4800

GGTTTGGTAG CTATCCACTT	GATGGTCAAA	TTGAAAATGG	GGCAAGGCCA	TCAGTAAATT	4860
CACACCCTGC TCAAAAAAGG	TCAGAGGGAA	AAAGAGGTGC	CGACCTTGGT	TTTGGAAAAA	4920
GAGGTCTGGA ACCAGCCCTT	CCTCCGTTAG	TCCGTGCAAG	AAAGTCAAAA	GTTCTTGGCT	4980
GGCATCATCA AAGGCTTCCC	AAGAAAGAGA	CTCCTCATAA	ATCTTGCCAA	TCATATACGA	5040
CTTTCTCTGC TCGACAATCC	TTAAAAAAAG	TGGAATATCC	CGAATGACAT	AGTATTTTTG	5100
GCTATTGATT TGGCCGATTC	TCAGAGTCCA	CAAGATATGA	TTGGTTCCTG	CTTCCACCTG	5160
ACCCACAGCT GATAACTCAT	AGGCGCATTC	TGATTTTGGA	GATAAAATTC	GATCCAAAAA	5220
CTTGCCACCC AAGGTCACCT	TGGTTTCAAC	AGCCTCTTTT	TCTTCATGAC	CTTCTTCCAG	5280
ACTCCACAAG ATTTCCTGAC	CACGCTCATC	ATTTTTCAGA	AAATGCTCTA	GCGCTGCCAA	5340
ATGCACACAG TAGCCCCTCT	TTTGAAAAAA	ATCACAGGCA	CAAAAAACCA	AATCATCCTC	5400
TAAACTATAG CGCAGTTCTT	CTTCTGCAAC	GCGAGCGTAG	AGCCGATTGT	TCTTTTCCTT	5460
GATGATATCA ACCTTACCAG	TTTCATAAAG	GGCAACACCT	TCGATACGAA	TTTTCCCCGG	5520
AATCAATTTA GCCATATTTT	CACCTTTACC	TTATCTTTTT	ATTATACCAT	ATTTTCGCCT	5580
ATGAAAATAG CCTTCTAGGA	AGACTTTTCT	CCTAGAAGGC	TGGATTTTTA	ACGTTTGGCA	5640
AAAGTAGCCA CAATCCGCTG	ACAGACTTCT	TGCAACAGAG	ATTTGGGCAT	AGCTATATTG	5700
ATGCGGGCAT GGAGACTTCC	TTCCTCTCCA	AAATCCAAAC	CACGGTTGAG	GATAACCTTG	5760
GCTTCATTTC TCAACAACTC	TTGCAATGTT	TCATCAGTCA	GGTCATAAGC	TGAAAAGTCA	5820
AGCCAAATCA AGTAGGTACC	TTGCGGTTTC	ATGACCTTGA	TTTTAGTCTC	TTTTCCAAAT	5880
AGATCCATCA CATAATTGAT	GTGGTCTTCA	AAGACTTGCT	TGAGTTCCTC	TAGCCAATCT	5940
TTACCGTATC GATAGGCAGC	TTCTGTCGCC	AAATAACCCA	AGCCTGAAAT	TTCATGCTGA	6000
TTATTGGCCA ACAGGCGTTT	CTGGAAAGCC	AGTCTCAACT	TAGGATTTTC	AATGACTGCA	6060
TAGGAATTTT TTGTTCCAGC	AATATTAAAT	GTTTTAGTGG	CACTGCTCAA	GACGATAGCA	6120
AAATTTTTGA AGGCAGGATT	GATGGTATTG	AAAGACTGGT	GTTTGTGACC	AAAGAGGGTC	6180
AAATCTTGGT GAATCTCATC	CGAAACTAAC	AAAACACCGT	GTTTTTGGCA	GAGTTGGCCA	6240
ATCTTCTCCA ACACTTCTTT	TTCCCAAACA	CGTCCACCAG	GATTGTGAGG	GTTGCAAAGA	6300
ACATAGAGTT TAACCTCCTC	TTCCACCAAA	TCCTTTTCAA	GTTGGTCAAA	GTCAATCTCA	6360
AACAGACTAT CCTTTTCCAC	TAAGGAATTA	GTAATCAATC	TACGATTATT	CAACTTGACA	6420
CTGCGAGCAA AGGGTGGGTA	GACAGGCGTG	TTAATTAAAA	CCGCCTCGCC	TTCTTTTGTA	6480
AAGGTTTGAA TAGCTGTTGA	GATGGCTGGT	ACCACACCCT	CGATAAAGAC	AAGAGCCTCT	6540

			528			
TTGTCAAAGT	TGTAACCGTA	TTGTGTAGCT	TCCCACTTTT	GAACTTCCTT	AATTAAGTCT	6600
TCACTGGCAT	AGGTATAACC	ATAAACCAGT	TGGTCTGCGT	AAGTTTGCAC	GGCTTGGCGG	6660
ATTTCAGGCA	AGACCACAAA	GTCCATATCC	GCTATCCAAG	CTGGTAGAAC	TTCACTATCC	6720
GTTTCTGTTT	CTTTCCATTT	ATAGGTATGG	TGCCCTAAAC	GGTTGGGCAG	GCTTGTAAAA	6780
TCATATTTTC	CCATCTTTGT	CTTATCCTTC	TATGGCTTGG	CGCAAATCTG	CAATCAAATC	6840
TCTAGCATCC	TCAATCCCAA	TAGACAAACG	CAAGAGGTCA	TCTGTCAAAC	CATAAGAATG	6900
GCGTACCTCT	GCTGGAATAT	CAGCATGAGT	TTGAGTCGTT	GGATAAGTAA	TAAGACTTTC	6960
CACTCCACCC	AAACTTTCCG	CAAAAGAGAA	GACCTTGAGA	CTGTTCAAAA	TATGAGGAAT	7020
GCGTGTTTCA	TCGGCTACTT	TAAAGGAAAT	CATGCCTCCA	CGACCAGTGT	AGAGAACTTC	7080
CTTAACTGCT	GGAGAATCCT	TCAAAAAGGC	AACCACTTCT	TGGGCGTTAG	CTGTTGAGCG	7140
CTCCATACGA	AGAGACAAGG	TCTTGAGACC	ACGAAGCAAC	TGGTAGCTGT	CAAATGGAGA	7200
CAAGACTGCC	CCTGTTGTAT	TAAGATTGTA	AAAAAGCTTC	TCGTATAGTT	СТАААСТАТТ	7260
GGTCACAACC	ACTCCAGCCA	AGACATCATT	GTGGCCTGCT	AGATACTTGG	TTGCTGAATG	7320
GAGAACGATA	TCTGCTCCAT	CTTCAATCGG	ACGTTGGTAG	ATAGGGCTAT	AGAAGGTATT	7380
GTCCACCACC	ACTTTGGCAC	CCTTAGCATG	AGCCAATTTT	GCTAGTTTTT	CGATATCAAA	7440
TTCCAACATC	AAGGGATTGG	TTGGGGTTTC	GATATAGAGA	ACATCCACAT	CCTTTTCTAA	7500
CTCGGCAATC	AACTCTTCTT	CTGTATTGGC	ATAGGTAAAA	TGGAAATGAC	CTTCCTGCTC	7560
CACTTGGTTA	AACCAGCGAA	AAGAACCACC	GTAAAGATCA	CGCACTGCCA	AGACCTTACT	7620
rcctactgga	AAGACGCTAA	AGGCCAGTAC	AATAGCTGAC	ATCCCTGAGC	TAGTCGCTAG	7680
GCATAGTCT	GCTGACTCAA	TAGCCGCCAA	GACTTCCTCA	GCCTTACTAC	GAGTTGGATT	7740
TTTAGTGCGC	GTATAGTCAA	ACCCAGTAGA	TCGACCAAAC	TCTGGATGCT	GATAGGTCGT	7800
rgaaaaatga	AGTGGTGTCA	CCAAAGCACC	TGTTGCCTCA	TCAGACTTGA	TCCCTGCTTG	7860
rgctaaaatt	GTGTTAATGT	GTAATTCCTT	GCTCATACAA	TTCCTCCAAA	TCTATAGTAA	7920
CTATTGTACC	ACTTATTTTG	TATCCTTCGT	TTTCTTGTTT	TCAAGAGCTA	GTTATAGTTT	7980
CAAACTATAT	AAAAAGGGAG	TTTTTCCTGC	TCCCTTTAAT	AGACTATAAA	ATGGTGAATC	8040
rcaaaagaca	CCTTCACTCT	ATCATTTGCT	CCTGCACAAA	ACGAGCATAA	CGCTCATGAT	8100
TTTCCAGTAG	TTCCTTATGA	GTTCCTGAGC	CAGTGATTTT	CCCCTCCTCT	AAGAAGAAAA	8160
PACAATCCAC	ATCTTTTACC	GTTGACAAAC	GATGCGCTAT	AATCACAACC	GTCTTCTCCT	8220
TTAGTACAGA	ATAGAGGCTA	CTGATAATCG	CATACTCAGA	ATCCGCATCA	AGATTAGCAG	8280
rGGCTTCATC	AAATATAAGA	ATTTCAGCAT	CTTTTAAGTA	GGCTCTAGCT	ATTTGAAGTC	8340

TTTCGTTCGC	CCCCCTGACA	AGAGTCGTCC	GCGTTCACCA	ACTTCAGTAT	CTAGTCCCTC	8400
TTTCATGGAG	CGAATCTCAT	CACCTAGTGA	TACTAAGTCT	AGCACTTTCA	TCAATTCATC	8460
ATCAGTTACT	AAGCGATTCA	AACCGAGACA	AAGATTGTCA	CGAATACTGC	CAGATAAGAC	8520
TGCATTATTT	TGTGAAACCC	AAGCGATTTT	ACTTCTCCAT	TCTTTTAAGT	TAAAATCATA	8580
TATACTTGAT	TGCTCCATTA	GAATATCTCC	TGAAAGCGGT	TTATAAAACC	GCTCTAACAA	8640
ACGCACAATC	GTTGATTTTC	CTGATCCAGA	TGGTCCAACA	AAAGCAATTT	TTTGCCCCTT	8700
GAAAATTGAA	CAAGTAATAT	CCTTTAAGAC	AGGTCGATTT	тсатсатаас	CAAAATAGAC	8760
ATGGTTAAAA	TTCAACCCTC	GTCCTGATAC	CGATTTTCCT	CCCTCAAATT	TTTCTTTAGG	8820
AACTGCAAGC	AAGTTCTCCA	GTGCAACTGA	AGATCCCTTG	CTCCTAGAAT	AAACAGTTAC	8880
AAAATTAGCT	ATATTACTAA	TAGGATTAAG	TAATTGAAAG	AGGTAAATCA	AAAACGAAAC	8940
CAAGGTTCCC	ACAGATATAT	ATCCTGCGCT	GACCCGATAA	CCCCCATAGG	TTAGCATCAC	9000
AGCTATAGTC	GCAAAGATAA	ATAAGAGAGC	AAACGGGGTC	TCAAAAGAAG	TAACCCTATC	9060
TGATTTCAGT	GAATTGTTTT	GTACCCTTTC	AATACAATTA	TCCAAAACAT	CCTGTACACT	9120
TTTCTCTGCT	TGGTTAGTCT	TAATTAATTC	ATGTTCTTGA	ATCTTTTCAG	TCAATTGCCC	9180
TGTTAAATTT	CCTCCTGTAA	ACGACGACTA	TACTTTTCAC	TGATATTGGA	AAGGGGCAAG	9240
ATAATAAACA	TCATACAAGG	AAGAGTGATG	AATAAAAGTA	GAGAAAGATT	CCAATCAAGA	9300
CTAAATAAGA	CTACAATGGA	ACCAAGTACC	ATAACTAAAC	TCAGAATAAT	ATTTGGGAAA	9360
GTCGTAATTA	AAAACTCACG	AATGACACTC	GTGTCATTGA	CAATGGCAGA	AGTCAACTCC	9420
CCACTTTGGC	TCTTATCAAA	GAAGGATTTC	TCTACATAAA	TCAACCCCTC	TATCACTTTT	9480
TTCCTGATTT	TTGCTATCTT	TTTTTCACCC	GATTGACTAA	ACAGATAGTA	ACCAATAGAA	9540
GAAAACAAGG	CTTGACCAAT	AAAAATCAAA	AACGATTGAA	ATACTTTGGA	GCCTATATTT	9600
TCAATAGAAC	TCCCATCTAT	TAAATCCTTT	AAGATAAGGG	GAAGCAACAA	AGCAAGTAGA	9660
CTAGACAGAA	CAAGTAAGAA	ACTCCCCATA	ATCACCTTAG	TATCTACTCT	TAATAATTTT	9720
AATTTCATAA	ATACTCCTTA	TAATATTTCA	ACGGATAAAG	TCGGGAATAA	CTCAATTTGA	9780
GGATAAAATC	ТААТАААТСТ	TCCTATAACA	AAACGCATAA	CATCTAGGAT	TTTATATACC	9840
TGATATTATG	CGTTTTTAAG	CACAAAGACT	TCTTACACAA	ACTTATCTAC	AATTAGATTT	9900
TATTTGACAT	GTTTTGCCAA	TTCTTCTTGG	GCTTTTTTAT	TGGATTCTTC	TTTTTTTTTC	9960
AACCATTTTT	CTCTGGCTTT	TGCATATTCG	TCTGTTGTGA	CAATCTTATC	TTGTACTTTG	10020
AGGTATTTAT	ATGATTCAAC	CCCTTTTGTA	CCGGTTAAAC	CATAGGCAGC	AGCAAATGGT	10080

530 ACGGTTCTTC TCAATGATGG TGTTCCCCCA CGCGAAACAC TTGGAAGAAC TAAAGAACTA 10140 TCAATCAACC AAGCTTGAAT ATCAGCATAT TTCTCATAAC GTTTGGCCGG ATCTTGCTCT 10200 TTATTAGCTT CTTCCAACAT TTGAGTATAG ACATCCAGTC CAACTGCCTT AGCCTTGTCA 10260 TTGGCCTCAC CAGGCTCTAG TCCAAGATTT TGCAGAAATC CTCCACTATT AGTATTAAAA 10320 ATATCGAGAT AGGTTGACGG GTCTTGATAA TCAGGTCCCC AACCGCCATG ATATAAATCA 10380 TAATCTTTCT GAGCAGCTGT TTGAGCAAAG TAGCCTGAAC TGTCAAACTC ATCTGATGTT 10440 AATTGCTGAA TGTCAATCAC TACATTATCA GAACCTAAAA CAGATTCAAT TGATTGTTTG 10500 ATAGAACTAA CTCCTTGTAT GCCTACTTTA TCTGTTACTT CCACAGTCTT ATCCAAGTGG 10560 ATTGGGAATT GAACACCCTT TGCTTCGAGT TCTTTCTTAG CTTCCGCAAA CTTAGCCTTG 10620 GCTTTCTCAG GATTGTAGTA AGGGTCTTGA CCATCCGCAA AGTTGATACC TTGCCATTCC 10680 TTACCATAGT TGACCATCTT AGAGGCTACA ACTTCACCAA AGTCTTTTCC CTTGATACTG 10740 ACAAAGTTTG GAGGAACCAC TAGGTTACGC AAAATCTTTG TTGCACCTTC TTTCCCTTCA 10800 GACTGAGCCC CATAAGATGT TCTGTCAAAA GCAAAATTGA TAGCCTGACG GAAGTTTTTA 10860 TTGAGAACTG CTTCCTGAGT CGATTTCTTT TCAATGTCAC TTGTTTTAGA AGTATAATTG 10920 TAAGACTTCC TATCTAGGTT AAAATTAAAG AAATATGAAG TTGAATTTTG CATACTATAG 10980 ATGATATTGT TTTTGTATTT TTCTTTAATC CCTTCATAGC TGGAGCTGTT AGGAAAAAGA 11040 CGAGCCGTAG TATAAGCACC AGCTGTAAAA TTACGTTCCA GTGATTCTTG GTCGCTACCA 11100 TCATAGTAGG TCAATTTCAC ATCGTCTACA AAGACATTCT TAGCATCCCA GTAATTAGGG 11160 TTTTTCTTAT ATTCAATAGC AGATTTTGAG ACAAGTGCTT TCATCAAGAA AGGTCCATTG 11220 TACAAAATAC TAGATGGATC CGCCTTCCCA AAATCATCCC CTTTTGATTT CAGGAAATCT 11280 GCATTAACAG GAAAAAGTAT CGTTGCAAGT GTTTTTGAAT TCCAGTAAAG TTCTGGTTTA 11340 ACCAAAGTAT ATTGAACCGT TTGGTCATCA AGTGCCTTGA CACCGACAGT TGAAAAGTCG 11400 CTTGTTTTAC CAGTGATATA GTCATCCAAA CCAGCAACAG AGTCCTGCAC TAGATACAAG 11460 GCTTCTGATT TTTTATCAGC TGCATATTGC AAACCTGTCA CAAAATCCTG GGCAGTTACA 11520 GGCGCATATT CTTCTCCCTC AGAAGTAAAC CACTTGGCAT CCTTACGAAG TTTGTAGGTA 11580 TAGGTCAAAC CGTCCTGAGA AACAGTCCAA TCCTCTGCTA ATGATGGAAT AATATTCCCA 11640 TATTGGTCAT TTTCTAATAA CCCGTCTACC AAATTTGCAA CAATATCGGA TGTTGCTGCG 11700 CGGTTTTCTG CTAGATAGTT CAAGCTAGAT GGATCACTTG AATAAACATA GTTGTAGGTT 11760 TTTGACGCCG TGCTAGAATT TCCACACGCG CTCAATAAAA CTCCTGTACC CAGGACAAGA 11820 CCTGCCAAGG TTAGATATTT GCTCTTAGAC TTTTTCATTT CCGG 11864

531

(2) INFORMATION FOR SEQ ID NO: 62:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2412 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 62:

TAACTGCACT	АААСАТААТА	TAAGGAGAGA	AAATGTCTGC	AATAGAACGT	ATTACAAAAG	60
CTGCTCACTT	AATTGATATG	AACGATATTA	TCCGTGAAGG	GAATCCTACT	CTACGCGCGA	120
TTGCTGAGGA	AGTCACTTTC	CCCCTATCTG	ACCAGGAAAT	CATCCTAGGC	GAAAAGATGA	180
TGCAATTCCT	TAAACATTCC	CAAGATCCTG	TCATGGCTGA	AAAAATGGGA	CTCCGCGGTG	240
GTGTTGGACT	GGCTGCTCCC	CAGTTAGATA	TCTCAAAACG	CATTATCGCT	GTTTTGGTAC	300
CTAATATTGT	TGAAGAAGGC	GAAACTCCAC	AGGAAGCCTA	CGATTTGGAA	GCCATTATGT	360
ACAATCCAAA	AATCGTCTCT	CACTCTGTTC	AAGATGCTGC	TCTTGGCGAA	GGAGAAGGTT	420
GCCTGTCTGT	TGACCGTAAC	GTGCCTGGCT	ATGTTGTTCG	CCATGCCCGC	GTTACTGTTG	480
ACTACTTTGA	CAAAGATGGA	GAAAAACACC	GTATCAAACT	CAAAGGCTAC	AACTCCATTG	540
TTGTTCAGCA	TGAAATTGAC	CACATTAACG	GTATCATGTT	TTACGATCGC	ATCAATGAAA	600
AAGACCCATT	TGCAGTTAAA	GATGGTTTAC	TGATTCTTGA	ATAAAGAAAA	TCCCGTTGCA	660
AGACGGGGTT	TTGTGTTATA	ATAGAGGCAT	GAAAACAAAT	GATATTGTCT	ATGGTGTCCA	720
CGCCGTTACC	GAAGCCCTCC	TTGCAAATAC	AGGAAACAAA	CTCTACCTCC	AAGAAGATCT	780
CCGAGGTAAG	AATGTTGAGA	AAGTCAAGGA	ACTAGCTACA	GAAAAGAAGG	TGTCCATTTC	840
TTGGACATCA	AAAAAATCTC	TCTCTGAGAT	TACTGAAGGT	GCTGTTCATC	AAGGTTTTGT	900
TCTACGAGTG	TCTGAATTTG	CCTATAGCGA	GCTAGATTAC	ATCCTTGCAA	AAACACGCCA	960
AGAAGAAAAT	CCACTTCTAT	TGATTCTAGA	TGGTCTAACC	GATCCCCATA	ATCTGGGTTC	1020
TATCTTGCGA	ACAGCCGATG	CGACCAATGT	TTCAGGTGTC	ATCATTCCCA	AGCACCGTAC	1080
TGTCGGAGTA	ACTCCTGTCG	TTGCCAAAAC	AGCCACAGGT	GCTATTGAAC	ACGTTCCAAT	1140
TGCCCGAGTG	ACCAACCTCA	GTCAAACCTT	AGGATAAACT	TAAGGATGAA	GGTTTCTGGA	1200
CCTTTGGAAC	GGATATGAAC	GGTACTCCTT	GCCACAAGTG	GAATACAAAA	GGGAAAATCG	1260
CCCTCATCAT	TGGAAATGAA	GGAAAAGGTA	TCTCTAGCAA	САТСААААА	CAGGTCGATG	1320
AAATGATTAC	CATTCCGATG	AATGGACATG	TTCAAAGCCT	TAATGCCAGT	GTTGCTGCGG	1380

			532			
CCATTCTCAT	GTACGAAGTT	TTCCGAAATA		AAGTTTCCAG	TCATCTGATT	1440
GGAAACTTTT	TTATGATTAA	CTATGTTCTG	TAATGAATTT	ATAGGCTTCT	TGACCAGCGA	1500
TAGCTCCATC	TCCAACCGCT	GTTGTTACTT	GGCGAAGGTC	TTTCAAGCGA	ACATCTCCAA	1560
CTGCAAAGAT	ACCGTCGACT	GCAGTTTTCA	TGTGGTTATC	TGTCACAATC	CATCCTGCCT	1620
GATCTTGGAT	ATTCAATTCT	TTAACAAAAT	CGCTAAGAGG	GTCCAAACCA	ACATAGATAA	1680
AGACACCACC	GAAGGCTTGT	TCTGTCACTT	GACCTGTTTT	CACATTTTCA	AATACGACTG	1740
ATTCTACTCG	GTTTTCACCC	TTGATTTCCC	TTACTACAGA	ATCCCAGATA	AAGCTGATTT	1800
TTTCATTCGC	AAAGGCGCGA	TCTTGTAAAA	CCTTTTGGGC	ACGAAGTTGG	TCACGACGGT	1860
GAACAATGGT	AACAGTCTTA	GCAAAACGAG	TCAAGAAGAG	GGCTTCTTCA	ACAGCTGAAT	1920
CTCCACCACC	AACTACCAAT	AAATCTTGGT	CACGGAAGAA	AGCACCATCA	CACACAGCAC	1980
AGTAAGAAAC	ACCACGACTG	TTCAGTTCTT	CTTCTCCAGG	CACTCCCAAA	GGACGGTGTT	2040
FAGAACCAGT	TGCTACGATA	ACTGTACGTG	TTTCATATGT	TTGGTCATCA	GTCATCACTT	2100
TCTTAAAATC	ACCATGGCTT	CGACATTTTC	AACATAACCA	TAAATGTGCT	CAACACCAAG	2160
ATTTTCAAGT	GGTTCAAACA	TCTTTTCAGC	CAATTCAGGT	CCACTAATAT	TAGCGTATCC	2220
rgggtaattt	TCGATATCAG	ATGTATTATT	CATCTGACCA	CCTGGCAGAC	CACCTTCAAT	2280
CAAAGCTACT	TTTAGATTGC	TTCGAGCAGC	ATACAAGGCC	GCAGTCATCC	CTGCAGGTCC	2340
AGCACCGATA	ATAATAGTAT	CGTACATATA	GATTCCTTCT	TTCTTGGTGT	AACTATCTTT	2400
ATTCTAACTC	TG					2412

(2) INFORMATION FOR SEQ ID NO: 63:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7760 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 63:

CCGATTTGGT	GGAATTTTTG	TCTCATCATT	TAGAAGGTGT	TGCAAGAGCA	GAGTTTACCT	60
TGGTGCTTCA	TACCAAATTG	GGAGAAGCCT	CTGTTTTGGC	AAATATTGTA	GATGTAAACA	120
AGGATGAATG	GATTTTAGGA	ACAGTTGCTG	GTGCCAATAC	CTTATTGGTT	ATTTGTCGAG	180
ATCAGCACGT	TGCCAAACTC	ATGGAAGATC	GTTTGCTAGA	TTTGATGAAA	GATAAGTAAG	240
GTCTTGGGAG	TTGCTCTCAA	GACTTATTTT	TGAAAAGGAG	AGACAGAAAA	TGGCGATAGA	300
AAAGTTATCA	CCCGGCATGC	AACAGTATGT	GGATATTAAA	AAGCAATATC	CAGATGCTTT	360

TTTGCTCTTT	CGGATGGGTG	ATTTTTATGA	ATTATTTTAT	GAGGATGCGG	TCAATGCTGC	420
GCAGATTCTG	GAAATTTCCT	TAACGAGTCG	CAACAAGAAT	GCCGACAATC	CGATCCCTAT	480
GGCGGGTGTT	CCCTATCATT	CTGCCCAACA	GTATATCGAT	GTCTTGATTG	AGCAGGGTTA	540
TAAGGTGGCT	ATCGCAGAGC	AGATGGAAGA	TCCTAAACAA	GCAGTTGGGG	TTGTTAAACG	600
AGAGGTTGTT	CAGGTCATTA	CGCCAGGGAC	AGTGGTCGAT	AGCAGTAAGC	CGGACAGTCA	660
GAATAATTTT	TTGGTTTCCA	TAGACCGCGA	AGGCAATCAA	TTTGGCCTAG	CTTATATGGA	720
TTTGGTGACG	GGTGACTTTT	ATGTGACAGG	TCTTTTGGAT	TTCACGCTGG	TTTGTGGGGA	780
AATCCGTAAC	CTCAAGGCTC	GAGAAGTGGT	GTTGGGTTAT	GACTTGTCTG	AGGAAGAAGA	840
ACAAATCCTC	AGCCGCCAGA	TGAATCTGGT	ACTCTCTTAT	GAAAAAGAAA	GCTTTGAAGA	900
CCTTCATTTA	TTGGATTTGC	GATTGGCAAC	GGTGGAGCAA	ACGGCATCTA	GTAAGCTGCT	960
CCAGTATGTT	CATCGGACTC	AGATGAGGGA	ATTGAACCAC	CTCAAACCTG	TTATCCGCTA	1020
CGAAATTAAG	GATTTCTTGC	AGATGGATTA	TGCGACCAAG	GCTAGTCTGG	ATTTGGTTGA	1080
GAATGCTCGC	TCAGGTAAGA	AACAAGGCAG	TCTTTTCTGG	CTTTTGGATG	AAACCAAAAC	1140
GGCTATGGGG	ATGCGTCTCT	TGCGTTCTTG	GATTCATCGC	CCCTTGATTG	ATAAGGAACG	1200
AATCGTCCAA	CGTCAAGAAG	TAGTGCAGGT	CTTTCTCGAC	CATTTCTTTG	AGCGTAGTGA	1260
CTTGACAGAC	AGTCTCAAGG	GTGTTTATGA	CATTGAGCGC	TTGGCTAGTC	GTGTTTCTTT	1320
TGGCAAAACC	AATCCAAAGG	ATCTCTTGCA	GTTGGCGACT	ACCTTGTCTA	GTGTGCCACG	1380
GATTCGTGCG	ATTTTAGAAG	GGATGGAGCA	ACCTACTCTA	GCCTATCTCA	TCGCACAACT	1440
GGATGCAATC	CCTGAGTTGG	AGAGTTTGAT	TAGCGCAGCG	ATTGCTCCTG	AAGCTCCTCA	1500
TGTGATTACA	GATGGGGGAA	TTATCCGGAC	TGGATTTGAT	GAGACTTTAG	ACAAGTATCG	1560
TTGCGTTCTC	AGAGAAGGGA	CTAGCTGGAT	TGCTGAGATT	GAGGCTAAGG	AGCGAGAAAA	1620
CTCTGGTATC	AGCACGCTCA	AGATTGACTA	CAATAAAAAG	GATGGCTACT	ATTTTCATGT	1680
GACCAATTCG	CAACTAGGAA	ATGTGCCAGC	TCACTTTTTC	CGCAAGGCGA	CGCTGAAAAA	1740
CTCAGAACGC	TTTGGAACCG	AAGAATTAGC	CCGTATCGAG	GGAGATATGC	TTGAGGCGCG	1800
TGAGAAGTCA	GCCAACCTCG	AATACGAAAT	ATTTATGCGC	ATTCGTGAAG	AGGTCGGCAA	1860
GTACATCCAG	CGTTTACAAG	CTCTAGCCCA	AGGAATTGCG	ACGGTTGATG	TCTTACAGAG	1920
TCTGGCGGTT	GTGGCTGAAA	CCCAGCATTT	GATTCGACCT	GAGTTTGGTG	ACGATTCACA	1980
AATTGATATC	CGGAAAGGGC	GCCATGCTGT	CGTTGAAAAG	GTTATGGGGG	CTCAGACCTA	2040
TATTCCAAAT	ACGATTCAGA	TGGCAGAAGA	TACCAGTATT	CAACTGGTTA	CAGGGCCAAA	2100

CATGAGTGGG	AAGTCTACCT	ATATGCGTCA	534 GTTAGCCATG	ACGGCGGTTA	TGGCCCAGCT	2160
GGGTTCCTAT	GTTCCTGCTG	AAAGCGCCCA	TTTACCGATT	TTTGATGCGA	TTTTTACCCG	2220
TATCGGAGCA	GCAGATGACT	TGGTTTCGGG	TCAGTCAACC	TTTATGGTGG	AGATGATGGA	2280
GGCCAATAAT	GCCATTTCGC	ATGCGACCAA	GAACTCTCTC	ATTCTCTTTG	ATGAATTGGG	2340
ACGTGGAACT	GCAACTTATG	ACGGGATGGC	TCTTGCTCAG	TCCATCATCG	AATATATCCA	2400
TGAGCACATC	GGAGCTAAGA	CCCTCTTTGC	GACCCACTAC	CATGAGTTGA	CTAGTCTGGA	2460
GTCTAGTTTA	CAACACTTGG	TCAATGTCCA	CGTGGCAACT	TTGGAGCAGG	ATGGGCAGGT	2520
CACCTTCCTT	CACAAGATTG	AACCGGGACC	AGCTGATAAA	TCtACGGTAT	CCATGTTGCC	2580
AAGATTGCTG	GCTTGCCAGC	AGACCTTTTA	GCAAGGGCGG	ATAAGATTTT	GACTCAGCTA	2640
GAGAATCAAG	GAACAGAGAG	TCCTCCTCCC	ATGAGACAAA	CTAGTGCTGT	CACTGAACAG	2700
ATTTCACTCT	TTGATAGGGC	AGAAGAGCAT	CCTATCCTAG	CAGAATTAGC	TAAACTGGAT	2760
GTGTATAATA	TGACACCTAT	GCAGGTTATG	AATGTCTTAG	TAGAGTTAAA	ACAGAAACTA	2820
TAAAACCAAG	ACTCACTAGT	TAATCTAGCT	GTATCAAGGA	GACTTCTTTG	ACAATTCTCC	2880
ACTTTTTTGC	TAGAATAACA	TCACACAAAC	AGAATGAAAA	GGAGCTGACG	CATTGTCGCT	2940
CCCTTTTGTC	TATTTTTAA	GGAGAAAGTA	TGCTGATTCA	GAAAATAAAA	ACCTACAAGT	3000
GGCAGGCCCT	GGCTTCGCTC	CTGATGACAG	GCTTGATGGT	TGCTAGTTCA	CTTCTGCAAC	3060
CGCGTTATCT	GCAGGAAGTC	TTAGGCGCCC	TCCTTACTGG	GAAATATGAA	GCTATTTATA	3120
GTATCGGGGC	TTGGTTGATT	GGTGTGGCCG	TAGTCGGTCT	AGTTGCTGGT	GGACTCAATG	3180
TTGTCCTCGC	AGCCTATATT	GCCCAAGGAG	TTTCATCCGA	CCTTCGGGAG	GATGCCTTCC	3240
GTAAAATTCA	AACCTTTTCT	TATGCTGATA	TTGAACAATT	TAATGCGGGA	AATCTAGTCG	3300
TTCGAATGAC	AAATGATATC	AACCAGATTC	AGAACGTTGT	CATGATGACC	TTCCAAATTC	3360
TTTTCAGACT	TCCCCTCTTG	TTCATCGGTT	CGTTTATCCT	AGCGGTTCAA	ACCTTACCTT	3420
CTCTGTGGTG	GGTGATTGTT	CTCATGGTAG	TCTTGATTTT	TGGTTTGACT	GCTGTCATGA	3480
TGGGAATGAT	GGGCCTCGT	TTTGCCAAGT	TTCAAACCCT	TCTTGAGCGC	ATCAATGCCA	3540
TTGCCAAGGA	AAATTTACGT	GGCGTTCGTG	TGGTCAAGTC	CTTTGTCCAA	GAAAAAGAGC	3600
AATTTGCTAA	GTTTACAGAG	GTCTCAGACG	AGCTTCTTGG	TCAAAACCTT	TACATTGGTT	3660
ATGCCTTTTC	AGTAGTGGAA	CCCTTTATGA	TGTTGGTTGG	TTACGGGGCG	GTCTTCCTCT	3720
CTATTTGGCT	GGTCGCGGGA	ATGGTTCAGT	CGGATCCGTC	TGTTGTTGGT	TCCATCGCTT	3780
CTTTTGTTAA	TTACCTAAGC	CAGATTATCT	TTACCATTGT	TATGGTTGGA	TTTTTGGGAA	3840
ATTCTGTCAG	CCGTGCCATG	ATTTCCATGC	GTCGTATTCG	AGAAATTCTT	GACGCAGAGC	3900

CAGCTATGAC	CTTCAAGGAT	ATCCCAGATG	AAGAGTTGGT	TGGAAGTCTT	AGCTTTGAAA	3960
ATGTGACCTT	TACCTATCCA	ATGGACAAGG	AACCGATGCT	GAAAGATGTG	AGCTTTACTA	4020
TTGAACCTGG	TCAAATGGTT	GGTGTAGTTG	GAGCGACTGG	TGCAGGAAAG	TCAACCTTGG	4080
CTCAATTGAT	TCCACGTCTC	TTTGATCCAC	AGGACGGGC	CATTAAAATC	GGTGGCAAGG	4140
ATATTCGAGA	AGTGAGTGAA	GGAACCCTGC	GTAAAACAGT	TTCCATCGTT	CTCCAACGTG	4200
CCATTCTTTT	TAGTGGAACG	ATTGCAGATA	ACTTGAGACA	GGGGAAGGGG	AATGCTACTC	4260
TATTTGAAAT	GGAGCGCGCA	GCCAATATTG	CCCAGGCTAG	TGAATTCATT	CATCGTATGG	4320
AGAAAACCTT	TGAAAGTCCA	GTTGAAGAAC	GGGGAACCAA	TTTCTCTGGT	GGACAAAAAC	4380
AAAGGATGTC	GATTGCGCGT	GGGATTGTCA	GCAATCCACG	TATTCTGATT	TTTGATGATT	4440
CGACCTCAGC	CTTGGATGCC	AAATCAGAGC	GCTTGGTGCA	AGAAGCTTTG	AATAAGGACT	4500
TGAAGGGGAC	GACAACCATT	ATTATTGCTC	AAAAAATTAG	CTCGGTTGTC	CATGCAGACA	4560
AGATCTTGGT	TCTAAATCAA	GGACGATTGA	TTGGTCAAGG	TACGCATGCA	GACTTGGTTG	4620
CCAACAATGC	CGTTTACCGT	GAAATCTATG	AAACACAGAA	ATGAAAGACA	AACTATAAGA	4680
AAAGTCAATA	GTTTTATCTA	AACTATTTCT	TATTTCAATT	TGATGATTTG	GCGATGATTT	4740
TAGAGCACGG	CAAAAAGCCC	TTGAAAAAGT	CCATTTTTTC	AAAGGTAATC	CTGTGTTAAT	4800
TTCAGAAATT	ACATCACTTT	TTGTTCGTCA	AATGGCAGCT	CTTTTTTTAG	GATATAAAAC	4860
AGGGTTCGGA	TAAGTTTTTT	TGCAAGGTGG	ATGATGGCTA	CATTGTAATG	TTTTCCTTGT	4920
TCTAATTTAG	TCTTAAGATA	GGCCTTAAAA	GCAGGCGAAA	AGCGAGGGCA	TGCTTTGGCA	4980
GCTTGTATGA	GTACCTACCG	CAGATGAGGG	GAACTCCGTT	TGACCATTCT	TCCTGCTAAA	5040
TCAATCTGAT	CTGACTGATA	AATAGAAGAA	TCCAGTCCAG	CGAAAGCTTG	TAATTGAGCA	5100
GGATTATCAA	AGGCATGAAT	ATTTCGAATC	TCAGCTAAAA	TGACCGCCCC	TAAACGATCC	5160
CCAATCCCAG	TAACCGTCGT	GATGACCGAG	TTGAACTCAG	CCATCAAGTC	ATTGACACAT	5220
GTTTCCGCCT	TGTCAATGAG	CCTCTTGTAA	TGTTTGATGT	TTTCATTACA	CGAGATAAAA	5280
CGTCTATGCG	TTATCAAACT	CATTACCAAT	ТААААСАААА	AGCTGTGGTT	AGATCCTTTC	5340
GGAAATTGTC	AAGCGATTGG	AGGAAATGAA	CTAATCCACA	GCGGCTTATT	CCAAGTATAC	5400
CACTTGGGCT	TTGGCAGTAG	CTAACTGCGC	ТАААТАТААТ	ATAAGGAGGA	GTAAAATGAA	5460
GACAGTTCAA	TTTTTTTGGC	ATTATTTTAA	GGTCTACAAG	TTCTCATTTG	TAGTTGTCAT	5520
CCTGATGATT	GTTCTGGCGA	CTTTTGCCCA	AGCCCTCTTT	CCAGTCTTTT	CTGGACAAGC	5580
GGTGACGCAG	CTAGCCAATT	TAGTTCAAGC	TTATCAAAAT	GGCAATCCAG	AACTTGTATG	5640

GCAAAGCCTA	TCAGGAATCA	TGGTCAATCT	536 TGGCCTGCTG	GTTTTGGTTC	TATTTATCTC	5700
TAGTGTAATA	TACATGTGTC	TCATGACGCG	CGTGATTGCA	GAATCGACCA	ACGAGATGCG	5760
CAAAGGCCTC	TTTGGTAAGC	TTGCTCAGTT	GACGGTTTCT	TTCTTTGACC	GTCGACAAGA	5820
TGGCGATATC	CTGTCTCATT	TTACCAGTGA	TTTGGATAAT	ATCCTCCAAG	CCTTTAACGA	5880
AAGCTTGATT	CAGGTCATGA	GCAATATTGT	TTTATACATT	GGTCTGATTC	TTGTCATGTT	5940
TTCGAGAAAT	GTGACGCTGG	CTCTCATCAC	CATTGCCAGC	ACCCCATTGG	CTTTCCTTAT	6000
GCTGATTTTC	ATCGTGAAAA	TGGCACGCAA	ATACACCAAC	CTCCAGCAGA	AAGAGGTAGG	6060
GAAGCTCAAC	GCCTATATGG	ATGAGAGCAT	CTCAGGCCAA	AAAGCCGTGA	TTGTGCAAGG	6120
AATTCAAGAG	GATATGATGG	CAGGATTTCT	TGAACAAAAT	GAGCGCGTGC	GCAAGGCAAC	6180
CTTTAAAGGA	AGAATGTTCT	CAGGAATTCT	TTTCCCTGTC	ATGAATGGGA	TGAGCCTGAT	6240
TAATACAGCC	ATCGTCATCT	TTGCTGGTTC	GGCTGTACTT	TTGAATGATA	AGTCTATTGA	6300
AACAAGTACA	GCCCTAGGTT	TGATTGTTAT	GTTTGCACAA	TTTTCACAGC	AGTACTACCA	6360
GCCTATTATC	CAAGTTGCAG	CGAGTTGGGG	AAGCCTTCAG	TTGGCCTTTA	CTGGAGCTGA	6420
ACGAATTCAG	GAAATGTTTG	ATGCAGAGGA	GGAAATCCGA	CCTGAAAAGG	CTCCAACCTT	6480
CACTAAGTTG	CAAGAAAGTG	TTGAAATCAG	TCATATCGTT	TTTTCATACT	TGCCTGATAA	6540
ACCTATTTTG	AAAGATGTCA	GCATTTCTGC	CCCTAAAGGC	CAGATGACAG	CAGTTGTTGG	6600
GCCGACAGGT	TCAGGAAAAA	CGACTATTAT	GAACCTCATC	AATCGCTTTT	ATGATGTTGA	6660
TGCTGGTGGT	ATTTATTTTG	ATGGTAAAGA	CATTCGTGGC	TATGACTTAG	ATAGTCTTAG	6720
AAGCAAGGTG	GGAATTGTAT	TGCAAGATTC	GGTCTTGTTT	AGCGGAACGA	TTAGAGACAA	6780
TATCCGATTT	GGTGTGCCAG	ATGCTAGTCA	GGAAATGGTT	GAGGTAGCAG	CAAAAGCAAC	6840
CCACATTCAC	GACTATATCG	AAAGTTTGCC	TGATAAGTAC	GATACTCTTA	TTGATGATGA	6900
CCAGAGCATC	TTTTCAACAG	GGCAGAAGCA	ATTGATTTCA	ATCGCTCGAA	CCCTGATGAC	6960
AGATCCAGAA	GTTCTCATTC	TCGATGAAGC	AACTTCAAAC	GTAGATACGG	TGACAGAAAG	7020
CAAGATTCAG	CATGCCATGG	AGGTGGTTGT	AGCAGGTAGA	ACTAGTTTCG	TCATTGCCCA	7080
CCGCTTGAAA	ACCATTCTCA	ATGCAGATCA	GATTATTGTC	CTTAAAGATG	GAGAAGTCAT	7140
TGAACGTGGT	AACCACCATG	AACTTTTGAA	GCTAGGTGGC	TTTTATTCAG	AACTCTATCA	7200
CAATCAATTT	GTTTTCGAAT	AAGAAAGAAG	TTGTCCTATG	TGGGCAGCTT	TTTCTTGTCC	7260
ATAAAAAATG	TTTATCACAG	CCTTAAAAAA	AACATATTAG	ACGAAAGTCA	TTTTGAGTGA	7320
TATGATAGGA	CTATCGTTAG	CATTCGAAAG	GAGAGGCATC	ATGGCTAGAA	CGGTTGTAGG	7380
AGTTGCTGCA	AATCTATGTC	CCGTAGACGC	AGAAGGCAAA	ATCATTCATT	CATCTGTATC	7440

537

TTGTAGATTC GCAGAGATCA TTCGTCAAGT CGGTGGTCTC CCTTTAGTCA TTCCTGTTGG 7500
TGATGAGTCA GTTGTACGTG ATTATGTGA AATGATTGAC AAACTCATTT TGACAGGAGG 7560
CCAAAAATGTT CATCCTCAGT TTTATGGAGA GAAAAAGACC GTCGAGAGCG ATGATTACAA 7620
TCTGGTCCGT GACGAATTTG AATTGGCACT CTTGAAGGAA GCGCTTCGTC AGAATAAACC 7680
AATTATGGCA ATCTGTCGCG GTGTCCAACT TGTCAATGTT GCCTTTGGTG GAACCCTCAA 7740
TCAAGAAATC GAAGGTCAGG 7760

(2) INFORMATION FOR SEQ ID NO: 64:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2723 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 64:

GAGGTTTTAA TTCACTTACC TCTsCCGTAT CTTTATTTAA AATGAATTCT TTTACGGTTG 60 120 TAATATCATT AAATGATGTA TATTCTTTTC CATTTATATA AATATGTTGT TCTTGAATCT 180 CACCATCGAA TCCATTATTT CTTTTATCAT TGATGTTAAA GACTACAGAT TTTCCATCAG 240 CATATTCGAT ACTAGTATTT CCCTTAGGAT CAATGTTTAC TTCGGGTTTA ACATTATCAT 300 ATAAAAACTG ATAGTGGACT CCAACTGCTT TAGCATTCAA ATCGCTATAG CCAGTTTGAA 360 GATAAACATT TCCATCCATA TCTGTTACCT TATCTGGAAA TCCGTTTGCT TTATAGTCTT 420 TCATTCCCCA GTCCATGATG TCACCGTCTT TAACATTCAG CTTAATATTA AAATCTCTAG 480 TGTTATCAAT GTGTAAATCT CCGTAGATTA AATAATTATC TACAACCGAT TCATTAACTC 540 TCAATTCCCA GTTAAAACCA CCCTTATCAG AAATCTTACC TCTTAAATAA AATTCTGGAT 600 TTCGTACATA AATTTTATTA GATTTAGATG GATTAAAGTA GTTCTTATCC ATTGAAAGGT 660 TTACTGGTTT GGTATCAATA AATAACATGG AGCCATCTTC TTTTATAGCT TCTACATTGA 720 ACTTATCCTC TCCAGTGTAT TCTTTATCAT CCTTACCAAA TAATACAAGT TTAGAAGAAT 780 CTGTCACAAG ATTTCCGTCT TTATCGATAG CTTCCCCTTT ATCGTTCATT TTAAATGTAA 840 ACACTTGATA CCTTATAATG TTAAAGCCGT CCAAAGCCGA CATTAATACA GATTGGGTAC 900 TTCTTCCATC TTCAACATTT CTACTATCAG CATAAATTGT TGTTTCTGAA AGGGCTCTTA 960 GATTAGGATT GGCCTTTTGT ATTTTTGCTA TATCTTCCTT GCTATAGACT CCATTTCCTT 1020

СТААСАТАТС	CGTTTTTCCA	GGATTATAGG	538 TAGTCACTTT	TAGTGCATAG	CCTTTTCTTA	1080
GAATGATATT	ATCCTTTAAC	AGATATTGTT	GTTTTTCTGA	ATCAGAATAG	ATTTTACCAG	1140
ATTCCATTTT	AGTTAAATTG	TCTGGTTTGT	TTTTTGAAAG	ATCTCCTTCC	ССТААТТСТА	1200
TGACATTCCC	ATAACTTGAT	ACATAGGGAT	ATTCTGATTT	AGTTTCCTTA	ATTTTTTCAG	1260
GCATTCTAAT	TTTAATTTCA	GCTTTTTTCT	GATCATTATC	ТТТААСАААТ	AATCTCATAT	1320
CTCCTGCAAA	AGCTAATCCA	TCCACAATAT	CATTAATATT	AGCGTATAGA	TCAAATGTCA	1380
TCGTTTTTGA	GTGGAAATCA	TACTTGGTCG	CTTTGATTTC	TATAGATTTA	TAGTTATTCC	1440
CATAATATAC	CTTGGCATTT	TTAGAAACAT	TACTTATCTT	TCCAAGAATT	TCAAAGTGTC	1500
CATCTTTAGA	CGGACTTAGA	ACACCATAAA	TTTTTGATTT	GATTTCGTCA	AGTTTCTCAG	1560
TTTCATATTC	TAGATCAGTC	CCATCATCGT	AGGCTATTAT	ATTTCCTTTA	TCATCGTATT	1620
TATAATCGTA	TTCCTCCATT	CTCTTACCAG	TTTCACTTGT	AAAATCATCA	ACTTCTCTAA	1680
ATTTCTTTTT	AATGAGTTTC	TTTAAGTCTT	TATTTTCAAA	GTCTCTAATT	GTTGAAATAT	1740
TTCTATCAAT	AGTAAAACTA	GATTTTTCTT	TAATAGACTC	TTCATTTTCT	TGATGATGAT	1800
GTTCTACCCC	AGTTGTATCT	TTTTTTAGAC	TACCCTCTTT	TCCATTTCCT	AATTTTTAAA	1860
ATTTAGATTC	TGCAATCTCG	CCAAGCTTTT	GATATTTAGA	TGAATCTTGA	TCAGGATCTA	1920
CTAGATAATA	GGAAATCATC	CCCTTTTCAT	CAGCCTGATT	AGCAAATTTA	ATTCTATGAA	1980
TCTTTGTGAA	ATTGCTAGAA	CCATCTAATG	CAATGACTTC	AATGATTTTT	CCCCTTAAAT	2040
CTCCCGCACC	TTTAATTTCA	TAAATGGTAT	TTCCGTCTTT	ATCAAGTTTT	CTATTTCTTC	2100
CTTGACCCTC	ACCTGCGTAA	GTTACTTCAA	GATTTTTTC	AACCTCTCCA	TCTTCATTAA	2160
CAAGAGCGGC	GCCAGCATAC	CAAACTTCGT	TCGCAATCTC	GTCAAATTTT	TCAGGATGTT	2220
CTTTTTGATC	TCTCGCAAAT	AGCGTTTCAT	TCTTATACTG	ATCTTTTACC	TTATGATAAG	2280
TATCCTTTGT	AATCAACTTA	ATTTTTTCAG	GATTTGAAAA	ATCAACCGAA	ACAATCTTAG	2340
GGGCGGTGTT	ATCAATTTTT	ACAGGAATAT	AGGAAACCTG	CCATGGGTAA	TCTTTAGTTA	2400
ATCTATATTT	AAATTTATAG	AAATATTGAC	CTTCCGCAAT	CGGTTCAAAT	TGACCTCTTA	2460
TCTTAGTAGC	AGGATCTTGA	TTATCCTTAC	TTTCTGGTGC	ATTTTCTTCT	CTACCTCTAG	2520
GATTATAGAT	GAGTCCATCC	CACTTCAAGT	CACCCCAAAC	TTTTAGTTTA	GATGATTTGA	2580
TTCCCTTTGC	ATCATTGCTT	TTAGAATTTA	AAATTCCTCT	AATAAAGTGT	TCTCTCGAAA	2640
TGACTTTTAA	GTCTCTTTGA	TTTTCTCCCT	CTTTATTTGT	ATTTACTATT	GAAATCAATC	2700
CTTCTTCTGC	ACTTCTTAAT	ACA				2723

⁽²⁾ INFORMATION FOR SEQ ID NO: 65:

539

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 11831 base pairs (B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 65:

AAAAAAGTGG GAATGACTCA	AATCTTCACT	GAAGCTGGCG	AATTGATCCC	TGTAACAGTT	60
ATTGAAGCAA CTCCAAACGT	TGTTCTTCAA	GTTAAAACTG	TTGAAACAGA	CGGATACAAC	120
GCTATCCAAG TTGGTTTCGA	TGACAAACGC	GAAGTATTGA	GCAACAAACC	TGCTAAAGGA	180
CATGTAGCGA AAGCTAACAC	GGCTCCTAAG	CGCTTCATTC	GTGAATTCAA	AAACGTTGAA	240
GGCTTGGAAG TTGGTGCTGA	AATTACAGTT	GAAACATTCG	CAGCTGGAGA	CGTTGTTGAC	300
GTAACGGGTA CTTCTAAAGG	TAAAGGTTTC	CAAGGTGTTA	TCAAACGCCA	CGGACAATCA	360
CGTGGACCAA TGGCTCACGG	TTCTCGTTAC	CACCGTCGTC	CAGGTTCTAT	GGGGCCTGTT	420
GCACCTAACC GCGTATTCAA	AGGTAAAAAC	CTTGCAGGAC	GTATGGGTGG	CGACCGCGTA	480
ACAATTCAAA ACCTTGAAGT	TGTACAAGTT	GTTCCAGAAA	AGAACGTTAT	CCTTATCAAA	540
GGTAACGTAC CAGGTGCTAA	GAAATCTCTT	ATCACTATCA	AATCAGCAGT	TAAAGCTGGT	600
AAATAATAAA GAAAGGGGAA	ATCAGTCACA	ATGGCAAACG	TAACATTATT	TGACCAAACT	660
GGTAAAGAAG CTGGCCAAGT	TGTTCTTAGC	GATGCAGTAT	TTGGTATCGA	ACCAAATGAA	720
TCAGTTGTGT TTGATGTAAT	CATCAGCCAA	CGCGCAAGCC	TTCGTCAAGG	AACACACGCT	780
GTTAAAAACC GCTCTGCAGT	ATCAGGTGGT	GGACGCAAAC	CATGGCGTCA	AAAAGGAACT	840
GGACGTGCTC GTCAAGGTTC	TATCCGCTCA	CCACAATGGC	GTGGTGGTGG	TGTTGTCTTC	900
GGACCAACTC CACGTTCATA	CGGCTACAAA	CTTCCACAAA	AAGTTCGTCG	CCTAGCTCTT	960
AAATCAGTTT ACTCTGAAAA	AGTTGCTGAA	AACAAATTCG	TAGCTGTAGA	CGCTCTTTCA	1020
TTTACAGCTC CAAAAACTGC	TGAATTTGCA	AAAGTTCTTG	CAGCATTGAG	CATCGATTCT	1080
AAAGTTCTTG TTATCCTTGA	AGAAGGAAAT	GAATTCGCAG	CTCTTTCAGC	TCGTAACCTT	1140
CCAAACGTGA AAGTTGCAAC	TGCTACAACT	GCAAGTGTTC	TTGACATCGC	AAATAGCGAC	1200
AAACTTCTTG TCACACAAGC	AGCTATCTCT	AAAATCGAGG	AGGTTCTTGC	ATAATGAATT	1260
TGTATGATGT TATCAAAAAA	CCTGTCATCA	CTGAAAGCTC	AATGGCTCAA	CTTGAAGCAG	1320
GAAAATATGT ATTTGAAGTT	GACACTCGTG	CACACAAACT	TTTGATCAAG	CAAGCTGTTG	1380
AAGCTGCTTT CGAAGGTGTT	AAAGTTGCCA	ATGTTAACAC	AATCAACGTA	AAACCAAAAG	1440

540

CTAAACGTGT TGGACGTTAC ACTGGTTTTA CTAACAAAAC TAAAAAAGCT ATCATCACAC 1500 TTACAGCTGA TTCTAAAGCA ATCGAGTTGT TTGCTGCTGA AGCTGAATAA TCTAAGGAGG 1560 AAATATCGTG GGAATTCGTG TTTATAAACC AACAACAAAC GGTCGCCGTA ATATGACTTC 1620 TTTGGATTTC GCTGAAATCA CAACAAGCAC TCCTGAAAAA TCATTGCTTG TTGCATTGAA 1680 GAGCAAGGCT GGTCGTAACA ACAACGGTCG TATCACAGTT CGTCACCAAG GTGGTGGACA 1740 CAAACGTTTC TACCGTTTGG TTGACTTCAA ACGTAATAAA GACAACGTTG AAGCAGTTGT 1800 TAAAACAATC GAGTACGATC CAAACCGTTC TGCAAACATC GCTCTTGTAC ACTACACTGA 1860 CGGTGTGAAA GCATACATCA TCGCTCCAAA AGGTCTTGAA GTAGGTCAAC GTATCGTTTC 1920 AGGTCCAGAA GCAGATATCA AAGTCGGAAA CGCTCTTCCA CTTGCTAACA TCCCAGTTGG 1980 TACTTTGATT CACAACATCG AGTTGAAACC AGGTCGTGGT GGTGAATTGG TACGTGCTGC 2040 TGGTGCATCT GCTCAAGTAT TGGGTTCTGA AGGTAAATAT GTTCTTGTTC GTCTTCAATC 2100 AGGTGAAGTT CGTATGATTC TTGGAACTTG CCGTGCTACA GTTGGTGTTG TCGGAAACGA 2160 ACAACATGGA CTTGTAAACC TTGGTAAAGC AGGACGTAGC CGTTGGAAAG GTATCCGCCC 2220 AACAGTTCGT GGTTCTGTAA TGAACCCTAA CGATCACCCA CACGGTGGTG GTGAAGGTAA 2280 AGCACCAGTT GGTCGTAAAG CACCATCTAC TCCATGGGGC AAACCTGCTC TTGGTCTTAA 2340 AACTCGTAAC AAGAAAGCGA AATCTGACAA ACTTATCGTT CGTCGTCGCA ACGAGAAATA 2400 ATATTAAACT AGTCGCTTAA GCAACTAGTA AATCCGCCAG CTCGGTAGCG CTCCATAGGA 2460 GTGCAAGCCG CTGTGGTACA ACATTTAAAG GAGAAAATAT AAAAATGGGA CGCAGTCTTA 2520 AAAAAGGACC TTTCGTCGAT GAGCATTTGA TGAAAAAAGT TGAAGCTCAA GCTAACGACG 2580 AAAAGAAAA AGTTATTAAA ACTTGGTCAC GTCGTTCAAC GATCTTCCCA AGTTTCATTG 2640 GTTACACTAT TGCAGTTTAT GACGGACGTA AACACGTACC TGTTTACATC CAAGAAGACA 2700 TGGTAGGCCA CAAACTTGGT GAATTTGCAC CAACTCGTAC TTACAAAGGT CACGCTGCAG 2760 ACGACAAGAA AACACGTAGA AAATAAGGAG AACATAAATG GCAGAAATTA CTTCAGCTAA 2820 AGCAATGGCT CGTACAGTAC GTGTTTCACC TCGTAAATCA CGTCTTGTTC TTGATAACAT 2880 CCGTGGTAAA AGCGTAGCCG ATGCAATCGC AATCTTGACA TTCACTCCAA ACAAAGCTGC 2940 TGAAATCATC TTGAAAGTTT TGAACTCAGC TGTAGCTAAC GCTGAAAACA ACTTTGGTTT 3000 GGATAAAGCT AACTTGGTAG TATCTGAAGC ATTCGCAAAC GAAGGACCAA CTATGAAACG 3060 TTTCCGTCCA CGTGCGAAAG GTTCAGCTTC ACCAATCAAC AAACGTACAG CTCACATCAC 3120 TGTAGCTGTT GCAGAAAAAT AAGGAGGTAA AATCGTGGGT CAAAAAGTAC ATCCAATTGG 3180 TATGCGTGTC GGCATCATCC GTGATTGGGA TGCCAAATGG TATGCTGAAA AAGAATACGC 3240

GGATTACCTT	CATGAAGATC	TTGCAATCCG	TAAATTCGTT	CAAAAAGAAC	TTGCTGACGC	3300
AGCAGTTTCA	ACTATTGAAA	TCGAACGCGC	AGTAAACAAA	GTTAACGTTT	CACTTCACAC	3360
TGCTAAACCA	GGTATGGTTA	TCGGTAAAGG	TGGTGCTAAC	GTTGATGCaC	TCCGTGCAAA	3420
ACTTAACAAA	TTGACTGGAA	AACAAGTACA	CATCAACATC	ATCGAAATCA	AACAACCTGA	3480
TTTGGATGCT	CACCTTGTAG	GTGAAGGAAT	TGCTCGTCAA	TTGGAGCAAC	GTGTTGCTTT	3540
CCGTCGTGCA	CAAAAACAAG	CAATCCAACG	TGCAATGCGT	GCTGGAGCTA	AAGGAATCAA	3600
AACTCAAGTA	TCAGGTCGTT	TGAACGGTGC	AGATATCGCC	CGTGCTGAAG	GATACTCTGA	3660
AGGAACTGTT	CCGCTTCACA	CACTTCGTGC	AGATATCGAT	TACGCTTGGG	AAGAAGCAGA	3720
TACTACATAC	GGTAAACTTG	GTGTTAAAGT	ATGGATCTAC	CGTGGTGAAG	TTCTTCCAGC	3780
TCGTAAAAAC	ACTAAAGGAG	GTAAATAACC	AATGTTAGTA	CCTAAACGTG	TTAAACACCG	3840
TCGTGAGTTC	CGTGGAAAAA	TGCGCGGTGA	AGCAAAAGGT	GGAAAAGAAG	TAGCATTCGG	3900
TGAATACGGT	CTTCAAGCTA	CAACTAGCCA	CTGGATCACT	AACCGCCAAA	TCGAAGCTGC	3960
TCGTATCGCC	ATGACTCGTT	ACATGAAACG	TGGTGGTAAA	GTTTGGATTA	AAATCTTCCC	4020
ACACAAATCA	TACACTGCTA	AAGCTATCGG	TGTGCGTATG	GGATCTGGTA	AAGGGGCACC	4080
TGAAGGTTGG	GTAGCACCAG	TTAAACGTGG	TAAAGTGATG	TTCGAAATCG	CTGGTGTATC	4140
TGAAGAGATT	GCACGTGAAG	CGCTTCGACT	TGCTAGCCAC	AAATTGCCAG	TTAAATGTAA	4200
ATTCGTAAAA	CGTGAAGCAG	AATAAGGAGA	AGGCATGAAA	CTTAATGAAG	TAAAAGAATT	4260
TGTTAAAGAA	CTTCGTGGTC	TTTCTCAAGA	AGAACTCGCG	AAGCGCGAAA	ACGAATTGAA	4320
AAAAGAATTG	TTTGAACTTC	GTTTCCAAGC	TGCTACTGGT	CAATTGGAAC	AAACAGCTCG	4380
CTTGAAAGAA	GTTAAAAAAC	AAATCGCTCG	CATCAAAACA	GTTCAATCTG	AAGCGAAATA	4440
ATAGACTAGG	GAAGGAGAAA	TTTCAATGGA	ACGCAATAAT	CGTAAAGTTC	TTGTTGGACG	4500
TGTTGTATCT	GACAAAATGG	ACAAGACAAT	CACAGTTGTA	GTTGAAACAA	AACGTAACCA	4560
CCCAGTCTAT	GGTAAACGTA	TTAACTACTC	TAAAAAATAC	AAAGCTCATG	ATGAAAACAA	4620
TGTTGCCAAA	GAAGGCGATA	TCGTACGTAT	CATGGAAACT	CGCCCGCTTT	CAGCTACAAA	4680
ACGTTTCCGT	CTTGTAGAAG	TTGTTGAAGA	AGCGGTCATC	ATCTAATCAA	ACCTGAAAGG	4740
AGAAAACTGA	AATGATTCAA	ACAGAAACTC	GTTTGAAAGT	CGCAGACAAC	AGCGGTGCTC	4800
GCGAAATCTT	GACTATCAAA	GTTCTTGGTG	GTTCAGGACG	TAAATTTGCA	AACATCGGTG	4860
ATGTTATCGT	GGCATCTGTA	AAACAAGCTA	CTCCTGGTGG	TGCGGTTAAA	AAAGGTGACG	4920
TTGTTAAAGC	AGTTATCGTT	CGTACTAAAT	CAGGTGCTCG	TCGTGCTGAT	GGTTCATACA	4980

TCAAATTTGA	CGAAAACGCA	GCAGTTATCA	542 TCCGTGAAGA	CAAAACTCCT	CGCGGAACAC	5040
GTATCTTTGG	CCCAGTTGCA	CGTGAATTGC	GTGAAGGTGG	CTTCATGAAG	ATCGTGTCAC	5100
TTGCTCCAGA	AGTACTTTAA	TTTTTAGGAA	CAAACTAGTC	CCCTAGCTTC	AAGCTAGGGT	5160
GCCCTTATGG	GCGTAAGAAA	AATCAAGGAG	AAACCTAATG	TTTGTAAAAA	AAGGCGACAA	5220
AGTTCGCGTA	ATCGCTGGTA	AAGATAAGGG	AACAGAAGCT	GTTGTCCTTA	CTGCCCTTCC	5280
AAAAGTAAAC	AAAGTTATCG	TTGAAGGTGT	TAACATTGTT	AAGAAACACC	AACGTCCAAC	5340
TAACGAGCTT	CCTCAAGGTG	GTATCATCGA	GAAAGAAGCA	GCTATCCACG	TATCAAACGT	5400
TCAAGTTTTG	GACAAAAATG	GTGTAGCTGG	TCGTGTTGGA	TACAAATTTG	TAGACGGTAA	5460
AAAAGTTCGC	TACAACAAAA	AATCAGGCGA	AGTGCTTGAT	TAATCACGAA	GGAAAGGAGA	5520
AGTATAATGG	CAAATCGTTT	AAAAGAAAAA	TATCTTAATG	AAGTAGTTCC	TGCTTTGACA	5580
GAACAATTCA	ACTACTCATC	AGTGATGGCT	GTGCCTAAAG	TAGATAAGAT	TGTTTTGAAC	5640
ATGGGTGTTG	GTGAAGCTGT	ATCAAACGCT	AAAAGCCTTG	AAAAAGCTGC	TGAAGAATTG	5700
GCACTTATCT	CAGGTCAAAA	ACCACTTATC	ACTAAAGCTA	AAAAATCAAT	CGCCGGCTTC	5760
CGTCTTCGTG	AAGGTGTTGC	GATCGGTGCA	AAAGTTACCC	TTCGTGGTGA	ACGTATGTAC	5820
GAATTCTTGG	ATAAATTGGT	ATCAGTTTCA	CTTCCACGTG	TACGTGACTT	CCACGGTGTC	5880
ССААСААААТ	CATTTGATGG	ACGCGGGAAC	TACACACTTG	GTGTGAAAGA	ACAATTAATC	5940
TTCCCAGAAA	TCAACTTCGA	TGACGTTGAC	AAAACTCGTG	GTCTTGACAT	CGTTATCGTA	6000
ACAACTGCTA	ACACTGACGA	AGAGTCACGT	GCATTGCTTA	CAGGCCTTGG	AATGCCTTTT	6060
GCAAAATAAT	ATAGGAGGTA	AATCTAATGG	CTAAAAAATC	AATGGTAGCT	AGAGAGGCTA	6120
AACGCCAAAA	AATTGTTGAC	CGTTATGCTG	AAAAACGTGC	TGCATTAAAG	GCGGCAGGGG	6180
ACTACGAAGG	TTTATCTAAA	TTACCTCGCA	ACGCCTCACC	GACTCGTTTA	CATAATCGTT	6240
GTAGGGTTAC	GGGGCGCCCA	CATTCAGTTT	ACCGCAAATT	TGGTCTGAGT	CGTATCGCTT	6300
TTCGCGAACT	TGCGCATAAA	GGTCAAATTC	CTGGTGTAAC	AAAAGCATCT	TGGTAATTTA	6360
AGATATCAAG	AGCGTCAAAA	CTCCAAGTAA	AAATAGGAAA	CTTGACGAAG	AAACTAAAGT	6420
TTCTAGGAAA	GTTTATCTTT	TTCACACAGA	GTTTAGCCCG	GGTTCAATTG	GGCTTGCCAA	6480
TTTGAACACG	AGCTACAGCT	TTGGCAAAAA	AGACCAATTT	GCTTTGGAGC	ATTGCTTCTG	6540
CATTAAATTG	TCTATTTTTG	CTCGTGCTGT	TACGCTCTTT	GTATCATGTA	TTAACTAGCA	6600
AGTGCAACTT	GCAAACTACT	AGTAAGAGGA	GAAAAACAAA	ATGGTTATGA	CTGACCCAAT	6660
CGCAGACTTC	CTAACTCGTA	TTCGTAATGC	TAACCAAGCT	AAACACGAAG	TACTTGAAGT	6720
ACCTGCATCA	AACATCAAAA	AAGGGATTGC	TGAAATCCTT	AAACGCGAAG	GTTTTGTAAA	6780

AAACGTTGAA	ATCATTGAAG	ATGACAAACA	AGGCGTCATC	CGTGTATTTC	TTAAATACGG	6840
ACCAAATGGT	GAGAAAGTTA	TCACTAACTT	GAAACGTGTT	TCTAAACCAG	GACTTCGTGT	6900
CTACAAAAA	CGTGAAGACC	TTCCAAAAGT	TCTTAACGGA	CTTGGAATTG	CCATCCTTTC	6960
AACTTCTGAA	GGTTTGCTTA	CTGATAAAGA	AGCACGCCAA	AAGAATGTTG	GTGGTGAGGT	7020
TATCGCTTAC	GTTTGGTAAA	ATCAAGATAC	AAAGCTCGTA	AAGAACAAAG	CAAAATTAGG	7080
AAGTTGGAGA	AGTTTGTTTA	CAAACAAGCC	AACTTATCTA	TTTTGCACAG	TTCTTAGAGC	7140
GTGTTCAGTT	CAGCTCTTGA	ACTAAATAAG	TATCTGAACC	CCGTGAAAAC	TGGCCGTTCT	7200
GGCCTGACAA	TTTAACAGGA	GAAAATAAAC	ATGTCACGTA	TTGGTAATAA	AGTTATCGTG	7260
TTGCCTGCTG	GTGTTGAACT	CGCTAACAAT	GACAACGTTG	TAACTGTAAA	AGGATCTAAA	7320
GGAGAACTTA	CTCGTGAGTT	CTCAAAAGAT	ATTGAAATCC	GTGTGGAAGG	TACTGAAATA	7380
ACTCTTCACC	GTCCAAACGA	TTCAAAAGAA	ATGAAAACTA	TCCACGGAAC	TACTCGTGCC	7440
CTTTTGAACA	ACATGGTTGT	TGGTGTATCA	GAAGGATTCA	AGAAAGAACT	TGAAATGCGT	7500
GGGGTTGGTT	ACCGTGCACA	GCTTCAAGGA	TCTAAACTTG	TTTTGGCTGT	TGGTAAATCT	7560
CATCCAGACG	AAGTTGAAGC	TCCAGAAGGA	ATTACTTTTG	AACTTCCAAA	CCCAACAACA	7620
ATCGTTGTTA	GCGGAATTTC	AAAAGAAGTA	GTTGGTCAAA	CAGCTGCTTA	CGTACGTAGC	7680
CTTCGTTCAC	CAGAACCATA	TAAAGGTAAA	GGTATCCGTT	ACGTTGGTGA	ATTCGTTCGC	7740
CGTAAAGAAG	GTAAAACAGG	TAAATAATGT	TGAGTGGTTG	ATCATCAACC	ACCAACCTAT	7800
TTTCCAACTT	TGTGCATAGC	ACACGATTTA	AAACTAAAGA	GGTGAAAACT	GTGATTTCAA	7860
AACCAGATAA	AAACAAACTC	CGCCAAAAAC	GCCACCGTCG	CGTTCGCGGA	AAACTCTCTG	7920
GAACTGCTGA	TCGCCCACGT	TTGAACGTAT	TCCGTTCTAA	TACAGGCATC	TACGCTCAAG	7980
TGATTGATGA	CGTAGCGGGT	GTAACGCTCG	CAAGTGCTTC	AACTCTTGAT	AAAGAAGTTT	8040
CAAAAGGAAC	TAAAACTGAA	CAAGCCGTTG	CTGTCGGTAA	ACTCGTTGCA	GAACGTGCAA	8100
ACGCTAAAGG	TATTTCAGAA	GTGGTGTTCG	ACCGCGGTGG	ATATCTATAT	CACGGACGTG	8160
TGAAAGCTTT	GGCTGATGCA	GCTCGTGAAA	ACGGATTGAA	ATTCTAATAG	GAGGACACTA	8220
GAAAATGGCA	TTTAAAGACA	ATGCAGTTGA	ATTAGAAGAA	CGCGTAGTTG	CTGTCAACCG	8280
TGTTACAAAA	GTTGTTAAAG	GTGGACGTCG	TCTTCGTTTC	GCAGCTCTTG	TTGTTGTTGG	8340
TGACCACAAT	GGTCGCGTAG	GATTTGGTAC	TGGTAAAGCT	CAAGAAGTTC	CAGAAGCAAT	8400
CCGTAAAGCA	GTAGATGATG	CTAAGAAAAA	CTTGATCGAA	GTTCCTATGG	TTGGAACAAC	8460
AATCCCACAC	GAAGTTCTTT	CAGAATTCGG	TGGAGCTAAA	GTATTGTTGA	AACCTGCTGT	8520

			544			
AGAAGGTTCT	GGAGTTGCCG	CTGGTGGTGC	AGTTCGTGCC	GTTGTGGAAT	TGGCAGGTGT	8580
GGCAGATATT	ACATCTAAAT	CACTTGGTTC	TAACACTCCA	ATCAACATTG	TTCGTGCAAC	8640
TGTTGAAGGT	TTGAAACAAT	TGAAACGCGC	TGAAGAAATT	GCTGCCCTTC	GTGGTATTTC	8700
AGTTTCTGAT	TTGGCATAAG	AAAGGGGATA	AAATGGCTCA	AATTAAAATT	ACTTTGACTA	8760
AGTCTCCAAT	CGGACGCATT	CCATCACAAC	GTAAAACTGT	TGTAGCACTT	GGACTTGGCA	8820
AATTGAACAG	CTCTGTTATT	AAAGAAGATA	ACGCTGCTAT	CCGTGGTATG	ATCACAGCAG	8880
TATCTCACTT	AGTAACAGTT	GAAGAAGTAA	ACTAATGAaG	TTTTAGGGGA	TGTGCACTGT	8940
ACCATCCCCT	AAAACTAGAT	ATAGTCATCT	ATGATGACAT	CGTATAGGCG	AGTTGATGGG	9000
GGAGACAACC	TTTTCTCCCT	TATCGGCGCT	AGCATTTTAC	AAAAGAGGAG	ААААТАААА	9060
TGAAACTTCA	TGAATTGAAA	CCTGCAGAAG	GTTCTCGTAA	AGTACGTAAC	CGCGTTGGTC	9120
GTGGTACTTC	ATCAGGTAAC	GGTAAAACAT	CTGGTCGTGG	TCAAAAAGGT	CAAAAAGCTC	9180
GTAGCGGTGG	CGGAGTTCGC	CTTGGTTTTG	AAGGTGGACA	AACTCCATTG	TTCCGTCGTC	9240
TTCCAAAACG	TGGATTCACT	AACATCAACG	CTAAAGAATA	CGCAATTGTG	AACCTTGACC	9300
AATTGAACGT	CTTTGAAGAT	GGTGCTGAAG	TAACTCCAGT	TGTTCTTATC	GAAGCAGGAA	9360
TTGTTAAAGC	TGAAAAGTCA	GGTATTAAAA	TTCTTGGTAA	CGGTGAGTTG	ACTAAGAAAT	9420
TGACTGTGAA	AGCAGCTAAA	TTCTCTAAAT	CAGCTGAAGA	AGCTATCACT	GCTAAAGGTG	9480
GTTCAGTAGA	AGTCATCTAA	GAGAGGTGAC	CTATGTTTTT	TAAATTATTA	AGAGAAGCTC	9540
TTAAAGTCAA	GCAGGTTCGA	TCAAAAATTT	TATTTACAAT	TTTTATCGTT	TTGGTCTTTC	9600
GTATCGGAAC	TAGCATTACA	GTTCCTGGTG	TGAATGCCAA	TAGCTTGAAT	GCTTTAAGTG	9660
GATTATCCTT	CTTAAACATG	TTGAGCTTGG	TGTCGGGGAA	TGCCCTAAAA	AACTTTTCGA	9720
TTTTTGCCCT	AGGAGTTAGT	CCCTATATCA	CCGCTTCTAT	TGTTGTCCAA	CTCTTGCAAA	9780
TGGATATTTT	ACCCAAGTTT	GTAGAGTGGG	GTAAACAAGG	GGAAGTAGGT	CGAAGAAAAT	9840
TGAATCAAGC	TACTCGTTAT	ATTGCTCTAG	TTCTCGCTTT	TGTGCAATCT	ATCGGGATTA	9900
CAGCTGGTTT	TAATACCTTG	GCTGGAGCTC	AATTGATTAA	AACTGCTTTA	ACTCCACAAG	9960
TTTTTCTGAC	GATTGGTATC	ATCTTAACAG	CTGGTAGTAT	GATTGTCACT	TGGTTGGGTG	10020
AGCAAATTAC	AGATAAGGGA	TACGGAAACG	GTGTTTCCAT	GATTATCTTT	GCCGGGATTG	10080
TTTCCTCAAT	TCCAGAGATG	ATTCAGGGCA	TCTATGTGGA	CTACTTTGTG	AACGTCCCAA	10140
GTAGCCGTAT	CACTTCATCT	ATCATTTTCG	TAATCATTTT	GATTATTACT	GTATTGTTGA	10200
TTATTTACTT	TACAACTTAT	GTTCAACAAG	CAGAATACAA	AATTCCAATC	CAATATACTA	10260
AGGTTGCACA	AGGTGCTCCA	TCTAGCTCTT	ACCTTCCGTT	AAAAGTAAAC	CCTGCTGGAG	10320

545

TTATCCCTGT	TATCTTTGCC	AGTTCGATTA	CTGCAGCcTG	CGGCTATTCT	TCAGTTTTTG	10380
AGTGCCACAG	GTCATGATTG	GGCTTGGGTA	AGGGTAGCAC	AAGAGATGTT	GGCAACTACT	10440
TCTCCAACTG	GTATTGCCAT	GTATGCTTTG	TTGATTATTC	TCTTTACATT	CTTCTATACG	10500
TTTGTACAGA	TTAATCCTGA	AAAAGCAGCA	GAGARCCTAC	AAAAGAGTGG	TGCCTATATC	10560
CATGGAGTTC	GTCCTGGTAA	AGGTACAGAA	GAATATATGT	CTAAACTTCT	TCGTCGTCTT	10620
GCAACTGTTG	GTTCCCTCTT	CCTTGGTGTG	ATTTCCATTT	TACCGATTGC	AGCTAAAGAT	10680
GTATTTGGTC	TTTCTGATGT	TGTTGCCTTT	GGTGGAACAA	GTCTCTTGAT	CATTATCTCT	10740
ACAGGTATCG	AAGGAATCAA	GCAATTGGAA	GGTTACCTAT	TGAAACGTAA	GTATGTTGGT	10800
TTCATGGACA	GAACAGAATA	AAAGTATTTA	CTGAATCAGT	AAATACTGAG	GGAGTGGAGG	10860
TTTAAACTCT	GACATTTGTA	AGAGTTGGAT	CTCCCCTCTT	CTATTTTGTT	TTTAAATCGG	10920
GGTGAAAAGA	CTTTTTGCTT	СТАТТТАААА	ATAAAATAAG	GAGATCAAAT	CATGAATCTT	10980
TTGATTATGG	GCTTACCTGG	TGCAGGTAAG	GGAACTCAAG	CAGCAAAAAT	CGTAGAACAA	11040
TTCCATGTTG	CACATATCTC	AACAGGTGAT	ATGTTCCGCG	CTGCAATGGC	AAATCAAACT	11100
GAAATGGGTG	TTCTTGCTAA	GTCATATATT	GACAAGGGTG	AATTGGTTCC	TGACGAAGTT	11160
ACAAATGGAA	TCGTAAAAGA	ACGCCTTTCA	CAAGATGATA	TTAAAGAAAC	AGGATTCTTA	11220
TTGGATGGTT	ACCCACGTAC	AATTGAACAA	GCTCATGCCT	TGGACAAAAC	ATTGGCTGAA	11280
CTTGGCATTG	AACTAGAAGG	TGTTATCAAT	ATTGAAGTGA	ACCCTGACAG	CCTTTTGGAA	11340
CGTTTGAGTG	GGCGTATCAT	CCACCGCGTA	ACTGGAGAAA	CTTTCCACAA	GGTCTTTAAC	11400
CCACCAGTTG	ACTATAAAGA	AGAAGATTAC	TACCAACGTG	AAGATGATAA	GCCTGAGACA	11460
GTAAAACGTC	GTTTGGATGT	TAATATTGCT	CAAGGAGAAC	CAATCATTGC	TCACTACCGT	11520
GCCAAAGGTT	TGGTTCATGA	CATCGAAGGT	AATCAAGATA	TCAATGATGT	CTTCTCAGAT	11580
ATTGAAAAAG	TATTGACAAA	TTTGAAATAA	AGCGTTTTTC	ACACTTGCAA	AAATCCGCTA	11640
CAAATGTTAT	ACTGAGATAG	TCTGACTTAT	AATTGTTGTC	TCTGTGTCTA	GAGGCATCGA	11700
ATCGAAATTT	ATGGAGGTGC	TTTTGCGTGG	CAAAAGACGA	TGTGATTGAA	GTTGAAGGCA	11760
AAGTAGTTGA	TACAATGCCG	AATGCAATGT	TTACGGTTGA	ACTTGAAAAT	GGACATCAGA	11820
TTTTAGCAGG	G					11831

(2) INFORMATION FOR SEQ ID NO: 66:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10726 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

546

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 66:

CCCGGCATTT	GAAAGCTATT	CGTGAAGGAT	TTATGATGGC	AATGCCTTTG	ATTTTAGTCG	60
GCTCTTTATT	TCTTATTCTA	ATCAGTTGGC	CTCAAGAGGC	TTTTACAAAT	TGGCTGAATA	120
GTGTTGGATT	GCTAAGTATC	TTGACAACTA	TGAATCAGTC	AACAGTAGCG	ATTATCTCCT	180
TGGTCGCTTG	TTTCGGTATT	GCCTACAGGT	TGTCGGAAGG	ATATGGTACA	GATGGTCCGT	240
CGGCAGGGAT	CATAGCCTTA	TCCAGTTTTG	TATTGATGGC	ACCTCGTTTT	TCGAGTATGG	300
TTTATGATAA	AAATGGGGAG	CAGGTCAAGC	AGTTATTTGG	CGGCGCAATA	CCATTTTCTA	360
GCCTGAATGC	ATCTTCTTTG	TTTATGGCGA	TTACTATTGG	ATTGGTTACA	GCAGAGATTT	420
ATCGTATGTT	TATCCAGCGC	GGAATTACGA	TAAAAATGCC	AAGTGGTGTC	CCAGATGTAG	480
TAAGTAAATC	ATTTTCAGCT	CTTTTATCTG	GTTTTACTAC	TTTTGTTTTG	TGGGCTTTGG	540
TCTTAAAAGG	TCTTGAAGCG	GCAGGAGTTG	CAGGAGGTCT	CAACGGACTC	CTAGGTGCAA	600
TTGTTGGAAC	ACCGCTTAAG	TTAATTGCAG	GAACGCTTCC	AGGTATGATT	CTATGTGTTA	660
TTGTAAACTC	ATTCTTTTGG	TTCTGTGGAG	TTAATGGGGG	ACAAGTTTTA	AATGCTTTTG	720
TAGACCCAGT	TTGGTTACAA	TTTACTACAG	AAAACCAAGA	AGCTGTGGCT	GCAGGACAAA	780
CACTCCAACA	CATTATTACA	TTACCGTTTA	AAGATTTATT	TGTATTTATT	GGTGGCGGTG	840
GAGCGACTAT	TGGTCTTGCG	ATTTGTCTCT	TCCTATTTAG	TAAGAGTCGT	GCGAATAAAA	900
CATTAGGTAA	GCTAGCTATT	ATACCGTCTA	TTTTTAATAT	CAATACAGCT	ATTCTATTTA	960
CGTTTCCAAC	AGTTTTAAAT	CCGATTATGC	TGATTCCGTT	TATTGCTACT	CCTACAATCA	1020
ATGCCTTGAT	TACCTATGTA	TCAATGGCTG	TAGGATTAGT	ACCCTATACA	ACAGGTGTAA	1080
TCCTTCCGTG	GACAATGCCA	CCGATTATAG	GAGGCTTCCT	TGCAACAGGG	GCTAGTTGGC	1140
GAGGAGCTCT	ATTACAAGTT	GTTTTGATTT	TGGTTTCTGT	AGCAATTTAT	TATCCATTCT	1200
TCAAAATTGC	AGATAAACGC	AATCTTGAAA	AAGAAAAAGC	TACTGTTGGA	GGGAAATAAG	1260
ATGGTTATCA	GAGTATTTGA	TCAACAGAAA	AATACTTATT	CTAGCTTTGC	CTTAGAGGAA	1320
TTAAGTTACT	ATATGAATCG	GGTCTTTAAG	ACTAACATAG	AGCTTGTCGA	GGAGAAGGAA	1380
GCGGATATTT	TTGTAGGATT	AGTCAATAAA	GAGGACAGAA	AAGACCATGT	TCTTATCTCA	1440
TTAGACAAGG	GTAAGGGGAG	AATTGAGTCT	AATACAATTG	TAGGTTTACT	TATTGGAATT	1500
TACCGAATGT	TTCATGAATT	TGGGGTTGTG	TATACTAGAC	CAGGGCGCAG	ACATGACTTT	1560
GTTCCAGAGT	TACGATTTGA	AGATTTTTTA	GATAAACAGC	TATCTATAGA	TGAAACAGCC	1620

	AGTTACTATC	ATAGGGGAGT	ATGTATAGAG	GGAGCGGATT	CATTTGAAAA	TATACTAGAT	1680
	TTCATTGATT	GGCTACCTAA	GATTGGGATG	AACAGTTTTT	TCATCCAGTT	TGAAAATCCT	1740
	TACTCTTTTT	TGAAACGTTG	GTATGAACAT	GAATTTAATC	САТАТСТААА	TAAAGAACAA	1800
	TTTTCAAATG	AATTAGTACA	AGAATTGAGT	GATAGGTTGG	ATAAAGAATT	GCAAAAAGA	1860
	GGTCTTATTC	ATCATCGTGT	TGGTCATGGA	TGGACAGGTG	AAGTTTTAGG	TTACTCTTCA	1920
	AAATTTGGCT	GGGAATCAGG	TCTTAGTATT	TCAGAGGAGA	AGAAACCCTA	TGTCGCTGAA	1980
	ATAAACGGGA	AACGAGAATT	GTTTAATACG	GCTCCGATTT	TAACCAGCCT	GGATTTTTCA	2040
	AATCCAGATG	TAGCTGATAA	GATGGTAGAA	ATTATCAAGG	ATTATGCCAA	GAAAAGACCT	2100
	GATGTTAACT	ACTTACATGT	ATGGTTGTCG	GATGCTCGTA	ATAATATTTG	TGAATGCGAA	2160
	AACTGTAGAC	AAGAATTGGT	TTCGGATCAG	TATATTCGTA	TTCTCAATCA	ATTGGATAGG	2220
	GCTTTAACGA	GTGAGGGATT	AGATACAAAG	ATTTGTTTTC	TGCTTTATCA	TGAGTTGTTA	2280
	TGGGCACCTC	AGAAAGAAAA	ATTAGATAAT	CCTGAACGCT	TTACCATGAT	GTTTGCACCG	2340
	ATTACAAGAA	CATTTGAAAT	GAGTTATGCA	GATGTAGATT	TTGACAATTC	CATACCTACG	2400
	CCTAAACCTT	ATATGCGTAA	ТААААТТАТА	CTTCCGAATT	CTCTTGAGGA	AAATTTATCT	2460
	TATCTTTTTG	AGTGGCAAAA	AGCATTTAAA	GGAGATAGTT	TCGTATATGA	CTATCCTTTA	2520
•	GGGCGTGCTC	ATTATGGCGA	TTTAGGCTAT	ATGAAAATTA	GTCAAACTAT	TTACAGAGAT	2580
•	GTATCTTATC	TTTCCAACCT	ACATTTGAAC	GGGTACATTT	CGTGTCAAGA	ATTACGTGCC	2640
	GGATTCCCTC	ATAATTTTCC	TAATTATGTC	ATGGGGGAAA	TGCTCTGGAA	GAAGACAAGA	2700
	AGTTATGAAG	AATTGATTGA	AGAATACTTT	TCTGCTTTGT	ATGGGGAAAA	TTGGCAGTCT	2760
(GTTGTTGAAT	ATTTAGAAAA	ATTATCCATT	TATTCCTCTT	GTGATTATTT	TAATGCAATT	2820
(GGCAGCCGTC	AAAGTGATGT	TTTAGCGAAT	CATTATTATA	TAGCTTACAA	TCTAGCTGAT	2880
ì	AATTTTTTAC	CAATTATTGA	GGAAAATATT	TCTAAGTTAT	TAAATAGTCA	AAAGGATGAA	2940
•	TGGAAACAGC	TCAGTTATCA	TCGTGAATAT	GTTGTTAAGA	TGGCGAAGGC	ТТТАТАТСТТ	3000
(CAAGCAACTG	GAAAAACAAG	GCAAGCTCAA	GATGAATGGA	GAAATGTGTT	GAATTATATC	3060
(CGTGGGCACG	AATTGCTATT	TCAATCTAAT	TTGGATGTTT	ATCGTGTAAT	TGAAGTAGCA	3120
i	AAAAATTACG	CTGGTTTCCA	CTTATAAATC	ATAAGTATAG	AAAATGAACT	AAGGTATTCA	3180
(GAGAAGATTG	АТССТАААТА	TTATGAAATT	TAAGGATTTT	TAAGATATTT	AGGGTCAACT	3240
*	TTCTATTTAT	ATCGTAGCGA	AGTCATTTTA	ATAATGATGT	GTAAAAGATG	GATCAAGATT	3300
(GAGGAGGAAG	AAAGATGAAA	TCAAAAGAAG	AAATAAATAT	GCTTGGTTTT	ACAATTGTCG	3360

548 CTTACGCAGG AGATGCAAGG TCAGATTTGA TGGATGCTTT GGCGTTTGCG AGAGATGGAT 3420 ATTTTGAACA GGCAAGAGAA TTGGTTGAGT CTGCAAACGA CTCAATAGTG TCTGCCCATC 3480 GAGAACAGAC TAATTTATTA GCGGAGGAGG CATATGGAGA TAATTTTGAA GTGAGCTTTA 3540 TTATGATTCA TGGTCAAGAT ACTTTGATGA CAACGATGCT ATTGTATGAT CAGGTAAAGT 3600 TTTTTATTGA TGAATATGAA CGAATTCGAA AGATTGAAGA ACATATTGGT TTGCAATGAG 3660 GATTAGTCAT GGAAAATTTA CAGGTTAAAG CCTTACCGAA GGAGTTTTTA TTAGGAACTG 3720 CTACCGCTGC TTATCAAGTA GAGGGTGCAA CTAGGGTAGA TGGCAAAGGA ATAAATATGT 3780 GGGATGTTTA TTTGCAAGAA AATAGTCCGT TCTTACCAGA TCCAGCTAGT GATTTTTATT 3840 ATCGTTACGA AGAGGATATA GCTTTGGCGG CAGAACATGG TTTGCAGGCT TTGCGTTTAT 3900 CTATTTCTTG GGTTCGTATA TTTCCTGATA TAGATGGGGA TGCTAATGTA TTAGCTGTTC 3960 ATTATTACCA TAGAGTTTTT CAGTCTTGCT TAAAACATAA TGTGATTCCG TTTGTTTCTT 4020 TACATCATTT TGATTCGCCT CAGAAAATGT TAGAAACAGG GGATTGGTTG AACAGAGAGA 4080 ATATTGATCG TTTCATACGA TATGCTCGCT TTTGTTTCCA AGAATTTACA GAAGTCAAGC 4140 ATTGGTTTAC AATCAATGAA CTGATGTCTC TTGCTGCAGG TCAATATATA GGAGGTCAGT 4200 TTCCTCCAAA TCATCATTTT CAATTATCTG AAGCAATTCA AGCGAATCAT AATATGTTGT 4260 TGGCGCATGC TCTTGCAGTC CTCGAATTTC ATCAATTAGG GATTGAGGGA AAGGTAGGTT 4320 GTATTCATGC TTTAAAGCCA GGCTATCCTA TTGATGGGCA AAAAGAAAAT ATTTTGGCAG 4380 CTAAACGGTA TGATGTTTAT AATAATAAAT TTCTATTAGA TGGAACTTTT TTGGGCTACT 4440 ACAGTGAGGA CACGCTTTTT CACTTGAATC AAATATTGGA AGCTAATAAT TCTAGCTTTA 4500 TTATTGAAGA TGGTGATTTA GAAATTATGA AGAGAGCTGC ACCTCTTAAT ACGATGTTTG 4560 GGATGAATTA TTATCGTTCA GAATTTATTC GTGAATACAA AGGTGAAAAT AGACAAGAAT 4620 TTAATTCAAC AGGAATAAAA GGACAGTCTT CTTTTAAATT AAATGCTCTA GGTGAATTTG 4680 TAAAAAAACC TGGTATTCCG ACAACAGATT GGGATTGGAA TATTTATCCT CAAGGGTTAT 4740 TTGATATGTT GCTTCGTATC AAAGAAGAAT ATCCTCAACA TCCGGTCATT TATTTAACTG 4800 AAAATGGTAC AGCCCTTAAA GAAGTTAAGC CAGAGGGCGA GAATGATATT ATTGATGACA 4860 GTAAGAGAAT CCGTTATATT GAGCAACATT TACACAAAGT TTTAGAGGCT CGAGATAGAG 4920 GAGTCAATAT TCAAGGCTAT TTTATATGGT CTTTGCAAGA TCAATTTTCT TGGGCGAATG 4980 GCTACAATAA GCGATATGGT CTTTTCTTTG TTGATTATGA AACACAGAAG AGATATATTA 5040 AGAAAAGTGC TCTTTGGGTA AAAGGGCTAA AACGGAATTA AGGTTAGCGA TTTGACTGAT 5100 GTTTAATATG TTTTAAATAT GAGGTTGAAT TTTTTATAGG AGGAGTTTTA TGGATAAGCT 5160

AGTCGCTGCC	ATTGAAAAGC	AACAAGGGAA	ATTTGAAAAA	ATTTCTACTA	ATAACTATAT	5220
GATGGCTATT	AAAGATGGAT	TCATTGCTAC	TATGCCTTTA	ATTATGTTTT	CAAGCTTTTT	5280
GATGATTATT	ATTATGATTC	CTAAAAATTT	CGGAGTAGAG	TTACCGAGTC	CAGCTATTGT	5340
CTGGATGAGA	AAAGTGTATA	TGTTAACCAT	GGGAGTTTTG	GGTATTATTG	TTTCAGGGAC	5400
TGTTGGAAAG	TCATTAGTTG	GAAATGTTAA	CAGAAAAATG	CCTCACGGAA	AGGTAATAAA	5460
TGATATTTCT	GCAATGTTGG	CAGCCATATG	TAGTTATCTG	GTATTAACTG	TAACGCTTGT	5520
AGTTGATGAG	AAGACGGGAT	CTACAAGTTT	GTCGACAAAC	TATTTAGGAT	CTCAAGGATT	5580
GATAACTTCG	TTTGTCAGTG	CCTTTATTAC	TGTAAATGTT	TACCGATTCT	GTATTAAGCG	5640
AGACATTACT	ATTCATTTAC	CTAAGGAAGT	TCCTGGGGCT	ATATCACAAG	CTTTTAGAGA	5700
TATTTTCCCT	TTTTCTTTTG	TTTTACTTAT	TAGTGGTTTG	TTAGATATTG	TATCTCGGTT	5760
TAGTTTAGAT	GTTCCTTTTG	CCCAAGTATT	TCAACAACTA	TTGACTCCTA	TTTTTAAGGG	5820
GGCAGAATCA	TATCCTGCTA	TGATGTTGAT	TTGGTTTATG	TGTGCTTTGC	TTTGGTTTGT	5880
TGGAATTCAT	GGACCATCTA	TTGTCTTACC	TGCTGTTACA	GCTTTGCAAC	TGAGCAATAT	5940
GGAAGAGAAT	GCTCAACTTC	TTGCAAATGG	GCAGTTCCCT	TATCATTCTT	TAACACCTAA	6000
TTTCGGGAAT	TATATCGCTG	CTATTGGAGG	AACGGGGGCT	ACCTTTGTTG	TACCATTTAT	6060
TTTGATTTTC	TTTATGCGGT	CTAAACAATT	AAAATCGGTA	GGTAAAGCTA	CAATTACTCC	6120
TGTTTTATTT	GCGGTAAATG	AACCTCTTCT	ATTTGGTATG	CCTGTTATTT	TGAATCCCTA	6180
TCTTTTTGTC	CCTTTTTTGA	TGACTCCACC	AGTGAATGTA	TTTCTAGGAA	AGGTCTTTAT	6240
TGATTTCTTT	GGAATGAATG	GATTTTATAT	CCAGTTACCT	TGGACCTTTC	CTGGTCCCTT	6300
GGGATTGTTA	ATTGGAACGA	ATTTTCAACT	TATCTCCTTT	GTATTTTTAT	CTTTGATTTT	6360
AGTTGTCGAC	ATATTGATTT	ATTTGCCATT	CTGTAGAGCG	TATGATAGAC	AGTTACTGGT	6420
GAAAGAAGAT	ATTGCAAGCT	CAAATGATAT	TATTTTAGAG	GAGGATACAA	GTGAAATAAT	6480
TCCTGGTGAG	ATAGATGAAA	TAAAAAGTAA	GGAGTTGAAA	GTACTGGTTC	TTTGTGCAGG	6540
GTCTGGAACA	AGTGCGCAAT	TAGCCAATGC	AATTAACGAG	GGGGCTAACT	TAACAGAGGT	6600
TAGAGTGATT	GCGAATTCAG	GAGCGTACGG	AGCTCATTAT	GATATTATGG	GTGTTTATGA	6660
ТТТААТТАТТ	CTGGCCCCAC	AAGTTCGGAG	TTATTATAGA	GAGATGAAGG	TGGATGCAGA	6720
AAGATTAGGT	ATTCAGATAG	TTGCTACCAG	AGGAATGGAA	TATATTCATT	TAACAAAGAG	6780
TCCAAGTAAA	GCCTTACAAT	TTGTATTGGA	GCATTACCAA	GCTGTGTAGT	AAGTTTTTCC	6840
ATCTTTTATT	TGAGTAAAGA	TTTTGTTTAC	AGATAGGCTT	GGATTTAAAA	ACGTTCCCCC	6900

550 TTTTTTAATA TAAGAATCCC TCTTTCACAA TTGTAAAAAG AGGGATTTTG TATTTTATCT 6960 CTTAGACCAA GTTCTCTTCA TAAAGAGAAG GAGGATTGGG TAAATCTCCA AGCGCCCTGC 7020 AATCATTGCA AAGGATAGGA GAATTTTTGA GATGGGACTA AAGATTGAGA AACTAGAAGT 7080 GGTTCCTAGA ATAGGCCCGA TATTATTGAA ACAGCTAAAG ACAGCGCTGG TCACGACCAG 7140 AAAATCATTG CTATCTAGGC TGACAATAAA GATAAGCGCT AGCAAAATCA TAGCATAGAT 7200 GACAAAGTAC TTGAGAATCT TATGCTGGGT ATCTTTGTCA ATCACCGTTT TATTAACATG 7260 GAGGGTCAAA ACACGGTGGG GCGATAGGAT TGACAAAATT TGGTTTTTGG CAATTTTTGA 7320 AAGGATGAGG CCTCGAATAA TCTTGAGTCC ACCTGCAGTT GATCCAGCAG AGCCACCGAT 7380 TGCCATGAGG AAAAGGAGGA TAAACTGGGA GAAGAGGGGC CAGTTGGTAA TATCTCCATA 7440 TCCAAAACCA GTTGTTGTAA TGATGTTGGA AACCTGGAAG AAGGTCATTT CAAAGCTCTT 7500 TGAAAACCCT GGGTAGAGGT AGAGGGTGTT GAGGCTAATC AAGCCTGTAG AAACCAGTAC 7560 AATGACCAAG TAAGCCCTAA GCTCTTCATC TCCAAAGAAG GCCTTGATGC GACGGAGCAT 7620 GAGGTAGTAG TAGAGGTTGA AATTTACTCC AAAAACCAGA ACTCCGATAC TGACCAGATA 7680 GGTAATCAGT GAGCTGCCAT AGTGGGCAAT TCCGTCGTTA TAGACGGTAA AGCCTCCAGT 7740 TCCCGCTGTC CCCATAGCAA TAACAAAACT ATCGTAGAGA GGCATACCGG CTAGATAATA 7800 GATGATGACA AAGAGGGAGA AGAGAGCTAG ATAAAGGAGA TAGAGAATCT GGGCAGTGTT 7860 TTTTAGTTTG GATACAACCT TGCCAAAAAC AGGACCTGGA ACCTCAGCCT TCATCACCTC 7920 TAGGTGGCTA TTTTTGGCAT TGTCCATAAT AGCAAGTGCA AAAACAAGCA CTCCCATCCC 7980 TCCAATCAAG TGGGTAAAAC TTCGCCAGAA GAGGAGGGAA CGGCTGAGAA CCGAAACGTC 8040 GTTCAAAATA CTTGCTCCAG TAGTTGTAAA TCCAGAACTA ATTTCAAAAA AGGCATCAAT 8100 AAGGCTGGGG ATTTGCCCAG AAAAGACAAA GGGGAGACCA CCAAAGAAAG ACCAAAGGAT 8160 CCAACAGAGG GCAACGATCA AGACTCCCTC CTTGGCATAA ATCCGTTGAT TTTTTGGCTT 8220 CTGTAAACTC CCTGAACCGC CTAACAATAC GAGAATCCCT ATGGTCGAAA AGAGGGCTGT 8280 AAAGACTTGG CTCGATTCAC GGTAATAGAC AGCAATCGCA ACAGGAACCA AAAGAAGAAC 8340 AGCTTCAATC AAAAGTAATT TTGAAAGGAG GTAACGAATC ATACTTTTAT TCATTTCTTA 8400 CCTCGCGATC AAGTCATAAA TCTTGGTGAT GTTTGGCAAC AAGGTTGTTA CTAGGAGCTT 8460 GTCTCCAACT TCCAACATAT CCTCCCCAGT TGGGAAAATA GTCTTGCCCT TTCGAATAAT 8520 GGCTGCAATA AGAACCCCTT TTTTCAATTT CAGTTGAGAA AGAGGTTTGG CAGTCATTTT 8580 ATTGCTTCC TTGATATGGA ATTGCAGGGT TTCGATTTGG CCATTGGCTA GATGGTGCAT 8640 AGCTTGAAGG TCTGAATACT GGGCATTAAC TCGACCACGA ATAAAGTGCA TAATCGTATC 8700

TACAGCGATG	CTTTTAGGTG	TGATGATACT	TGAAAAATCA	GGCGCATTGA	TAATCTCGAG	8760
GAGACTGGTA	CGATTGACCT	TAGTAATATT	TTTCTGTACA	CCTACCCTGT	CAAGGAACAT	8820
AGATGTAATC	AGATTTTCCT	CATCGACTCC	TGTTAGAGTC	GCAACGGCAT	CATAGTGTTG	8880
AGCACTTTCT	TCCAGCAGGA	TATCTTTTGC	GGTTCCATCT	CCTTGAACGA	TGTAGAGATT	8940
TGGGAATTTC	TCGCTAAAGA	AGCTGGCGAT	TTCAGGATTG	ATTTCAATGA	CTTTTGTATC	9000
GATACGACTA	TCTTTGAGAA	TACCAAGTAG	ATAATAGGCA	ATTCTACCTG	CCCCAACGAT	9060
GAGAAGGCTC	TTCACGGCGC	GTGATTTAAA	ATAATTATGG	AAGAGTATCA	TATCGACACG	9120
GTTACCAGTG	ACAAAGATTC	TATCTTTATC	CTGTACAGTC	ATGTCACCGC	TTGGAATGAT	9180
AATTTGATGA	TCCCTCTCTA	TCGCACAGAC	AATGACATTA	CCAAATTTTT	TACGAAAATC	9240
AGAAATGGGC	ATTTGGCAAA	GACCGCTGGT	GGACTTGACG	ACAAATTCCA	TGAGGCTAAC	9300
GCGTCCACCA	GCAAAGCGTT	CGACAGACAG	GGCGTTGGGG	AAGTCAATGA	TATTCGCGAT	9360
AGCGCGGGCA	GCCAAGAGCT	CAGGATTAAC	GATAAGAGAA	AAACCGAGAA	TATTCTTTTC	9420
CTTGAAATAA	GAGTTAGAAT	ATTCAGGGTT	CCGCACCCGA	ACGATAGTTT	CTTTAGCTCC	9480
CATTTTCTTG	GCTAGAACTG	CTGCAATCAT	GTTGACTTCA	TCGTGCTCAG	TCAGGGCGAT	9540
AAAGATATCA	CAATCTTGGA	CGCTGGCTTG	CTCAAGAATG	GCAAAATCGG	CCCCGTTACC	9600
AAGGATACCA	ATGATATCAA	AGCGACTGAC	AATATGATTG	AGAACAGCTT	CGTCTTGCTC	9660
AATCAGCAAA	ACATCATGCT	TTTCTGCAAC	CAAGGAGCGA	CAGAGGCAA	AACCAACTTT	9720
TCCCCCTCCG	ACAAGGATAA	TTTTCATAAT	AAAACCTACT	TTTTCATGAT	GTAACTATCA	9780
TACCCTTTTT	CAAGAAAAA	TGCACCTACT	AGCTAATAAC	AAGAGTTTTT	AGTGAAAATT	9840
CGCTATAAGG	TAAAACTATA	CCCTAACCAA	TTGAAATAGC	TATTAGCGAC	TTTCTCTGAA	9900
ATATGGTATG	ATAAAGGATA	TACAAGGAGA	TAAAATGAAT	AATAATTTAC	TGGTATTACA	9960
ATCAGACTTT	GGTCTGGTTG	ATGGTGCGGT	ATCGGCTATG	ATTGGAGTGG	CTTTAGAAGA	10020
GTCTCCAACC	TTAAAAATAC	ATCACTTGAC	GCACGATATC	ACGCCTTATA	ATATTTTTGA	10080
GGGGAGCTAT	CGTCTCTTTC	AGACGGTGGA	TTACTGGCCT	GAGGGAACGA	CGTTTGTATC	10140
GGTTGTCGAT	CCAGGTGTCG	GTTCGAAACG	TAAGAGTGTA	GTTGCCAAGA	CTGCAAAAAA	10200
TCAATACATT	GTCACGCCAG	ATAATGGGAC	GCTTTCCTTT	ATCAAGAAAC	ACGTTGGCAT	10260
TGTAGCCATT	CGTGAGATTT	CTGAGGTGGC	CAATAGGCGT	CAAAACACAG	AGCATTCTTA	10320
TACCTTCCAC	GGTCGTGATG	TCTATGCCTA	TACTGGTGCT	AAACTGGCCA	GTGGTCACAT	10380
TACTTTTGAG	GAAGTAGGGC	CAGAGCTCAG	TGTGGAACAG	ATTGTAGAGC	TTCCAGTCGT	10440

			552			
AGCGACCATC	ATAGAAGATC	ATCTGGTGAA	GGGAGCCATT	GATATTCTGG	ATGTGCGTTT	10500
CGGTTCGCTT	TGGACCTCTA	TCACACGGGA	AGAATTTTAC	AAGCTGGAAC	CAGAATTTGG	10560
TGATCGTTTT	GAAGTGACCA	TCTATCATGC	TGATATGCTG	GTCTATCAAA	ATCAGGTTGT	10620
CTATGGCAAA	TCATTTGCAG	ATGTGAGAAT	TGGGCAACCs	ATCTTTACrc	TCAGCaTCTt	10680
CGATTAGCTG	GGCAATTCGT	TCTAGTTGGA	TTTCGTCAAT	CAAGGT		10726

(2) INFORMATION FOR SEQ ID NO: 67:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 7163 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 67:

TTATCTTTAA CGATATCAAT CAAGATCTGG TCAATAAAGG GATTGGGGCT TA	ATCGTGAAG 60
TTGGCATCCA AGCCCATGGA TATGTCTGTG ACGTGACAGA CGAGGACGGT AT	PCCAAGCCA 120
TGGTCAAGCA AATCGAACAA GAGGTTGGTG TCATTGACAT CCTCGTTAAT AA	ACGCTGGTA 180
TTATCCGCCG AGTTCCAATG TGCGAAATGA GCGCCGCTGA TTTCCGTAAG GT	PCATCGATA 240
TTGACTTAAA CGCACCATTT ATCGTTTCAA AGGCAGTTAT TCCTTCTATG AT	TAAAGAAAG 300
GGCATGGAAA GATTATCAAT ATTTGTTCGA TGATGAGCGA ACTGGGACGT GA	AAACAGTTA 360
GCGCTTATGC TGCTGCTAAA GGGGGCTTGA AAATGTTGAC CCGCAACATT GC	CGTCTGAAT 420
ACGGTGGAGC CAATATCCAA TGTAACGGAA TTGGACCGGG TTATATTGCC AC	CTCCTCAAA 480
CAGCACCTCT TCGTGAATTG CAAGAAGATG GTTCTCGCCA CCCATTTGAC CA	AGTTCATCA 540
TTGCAAAAAC ACCTGCTGCA CGTTGGGGAA ATACTGAAGA TTTGATGGGC CC	CTGCTGTCT 600
TTCTCGCTAG TGATGCCAGC AATTTTGTCA ATGGCCACAT CCTATATGTA GA	ATGGCGGTA 660
TCTTAGCCTA CATCGGAAAA CAACCTGAGT AAAAATAGAA AGAAGATCTT AT	rgaaaatcg 720
CATTAATCAA TGAAAATAGT CAAGCTAGCA AGAATCACAT TATTTACGAT AG	GTCTAAAAG 780
AAGCGACAGA TAAAAAAGGC TACCAATTAT TTAACTATGG TATGCGTGGA GA	AAGAAGGAG 840
AAAGTCAATT AACTTATGTG CAGAACGGAC TAATGGCTGC CATCCTTTTA AA	ATACAAAGG 900
CAGTTGACTT TGTTGTTACC GGCTGTGGTA CGGGTGTAGG GGCTATGCTT GC	CTTTAAACA 960
GCTTCCCTGG TGTTGTCTGT GGTCTAGCAG TGGACCCAAC TGACGCTTAC CT	TTTATTCTC 1020
AAATCAATGG TGGTAACGCC TTGTCTATCC CTTATGCCAA AGGATTTGGC TG	GGGGGCAG 1080
AACTGACCCT CAAATTGATG TTTGAACGCT TATTTGCTGA AGAAATGGGC GG	STGGCTACC 1140

(CAAGAGAACG	TGTAATCCCT	GAACAACGCA	ACGCTCGTAT	CTTAAACGAG	GTGAAACAAA	1200
7	rcacccacaa	TGATTTGATG	ACCATCCTTA	AAATAATCGA	CCAAGACTTC	CTCAAAGACA	1260
(CCATCTCTGG	CAAATACTTC	CAAGAATACT	TCTTTGAAAA	CTGCCAAGAT	GATGAAGTTG	1320
(CTGCTTATTT	GAAAGAAGTA	TTAGCCAAGT	AAAGCTATTC	TAAACCAGAA	AGGAACTAAT	1380
(GGATGACGAA	AATATTACTG	TTTGGCGAAC	CATTAATTCG	AATTTCACCA	TTAGATGCCA	1440
(CCAGTATCGG	CGATCATGTT	GCCAGTTCGA	CTTATTTTGG	CGGATCAGAA	ATTAACATCG	1500
(CTTGTAATTT	GCAAGCCCTG	GGTATCTCAA	CGAAAGTTTT	TACCGCACTC	CCTGCCAACG	1560
2	AGATTGGAGA	TCGTTTTCTC	ACATTCTTGA	AACAGCACCA	AATCGATACC	AGTTCAATCT	1620
C	STCGGCTTGG	CGATCGAATC	GGCCTCTACT	ATTTGGAGAA	CGGCTTTGGT	TGTCGTCAAA	1680
(GTGAAGTTTT	CTACGATCGT	AAGCATACGA	GTATCAGCCA	GATTCGGCCA	AACATGCTAG	1740
2	ATATGGATTC	TCTCTTTCAG	GGGATTAGCC	ATTTTCATTT	TAGTGGAATC	ACCGTAGCTA	1800
7	CGGTCAAGA	GGTCCGTGCG	ATCCTTCTCC	TACTCTTGGA	AGAAGCCAAG	CGCCGAGGAA	1860
7	TTGTCGTTTC	AATGGATCTC	AATCTGAGAA	CAAAGATGAT	TTCAGTCCTA	GAAGCCAAGT	1920
Į	ATGAATTTTC	TAAGTTTGCA	CGTTTTACTG	ACTATTGCTT	CGGTATTGAT	CCTCTCATGA	1980
7	TTGATGACCA	AAATCTAGAG	ATGTTTCCAA	GAGACAGTGC	TAGCCTAGAA	GAGGTGGAAA	2040
Z	ATCGCATGCG	ACTTTTAAAA	GAAGCCTATG	GTTTCAAGGC	CATTTTCCAT	ACCCTCCGCT	2100
(CTAGTGATGA	GCAAGACAAA	AATGTCTATC	AAGCCTATGC	TCTAGAAGAA	CTATTTGAAG	2160
Į	AGTCTGTCCA	ACTAAAAACT	GCAGTCTATC	AACGAATTGG	TAGCGGGGAT	GCCTTTATAT	2220
C	CTGGTGCCCT	TTACCAACTA	CTCCATCATT	CCTCCCTAAA	AACTACCATT	GACTTTGCAG	2280
1	TGCGAGCGC	AACTCTCAAA	TGCACTCTTC	CAGGAGACCA	TCTCTCCACT	TCCTCAACTA	2340
C	TATTGAAAA	TTTACTGGCA	AATGCACAAG	ATATCATTCG	TTAGGAGAAT	TACATGACCA	2400
P	ATCAGATAC	GATTATTGAA	СТАААААААС	AAAAAATTGT	CGCTGTTATT	CGAGGAAATA	2460
C	CAAAGGAAGA	AGGACTACAA	GCCTCGATTG	CTTGTATCAA	GGGCGGTATC	AAAGCTATTG	2520
P	AATCGCCTA	TACCAATCAG	TATGCAGGAC	AAATCATCAA	GGAACTTGTA	GACTTGTATC	2580
P	GGACGATCA	GAGTGTTTGT	ATCGGTGCAG	GTACTGTGCT	TGATGCCGTA	ACTGCTAGAG	2640
P	TGCCATTCT	AGCTGGAGCA	AATTACGTTG	TTTCTCCATC	TTTCCATGCT	GAAACTGCGA	2700
A	AATGTGCAA	TCTCTACAGC	ACACCGTACA	TTCCAGGCTG	TATTACCCTC	ACAGAGATCA	2760
C	GACTGCACT	TGAAGCCGGT	AGTGAAATCA	TCAAACTCTT	CCCAGGTAGT	ACTCTCAGTC	2820
C	AGCATATAT	CTCTGCAGTC	AAGGCACCGA	TCCCACAAGT	TTCCGTAATG	GTAACCGGAG	2880

GAGTCGGCCT	AAACAACATC	CCTCAATGGT	554 TCGCTGCTGG	TGCAGATGCC	GTTGGAATTG	2940
GTGGCGAACT	СААТАААСТС	GCTTCCCAAG	GCAACTTTGA	CCGCATCAGC	GAGATTGCCC	3000
AACAGTATAT	TACACTCAGA	ТААААТСАТА	ACTACCCGTC	TAACGGGTGG	TTTATCTCAG	3060
AGCTATAAGC	CCAAATCATC	AGCCAGCGCC	TAAAGACGCT	GGCTTTCACG	TTGTTCAAGC	3120
CTTATTGCTC	TTGACTCGTC	ACTTGCCTCT	TTAAGAGACT	TTGGTATTAC	TTACCACTAT	3180
CCCTAAAGGG	ATCCTCATAT	TCTTTTACAC	TCAATTTATC	TAGTGCTATA	GTAGATTGAA	3240
ACTGGAATAG	TACACCTCTG	CTTCTAAAAC	ATTGTTAAAA	ATCGATTTGA	CTGTCCTGAT	3300
CGATTTTGTC	CTGTTCTTAT	TTCATTTTAC	TATATATCAT	ACTTTACTCG	TTCTCAAATT	3360
TTCATACTCA	TGAAGAAATC	ATCCACTCGA	TAATTTCTTT	AATCTTGACT	ATATTTCTTA	3420
ATTGTGGCTT	CATTAAGCCC	TACTGGACTT	ACATAATAAC	CTTCCTCCCA	GAAATGCCGA	3480
TTCCCAAACT	TGTACTTGAG	ATTGGCGTGT	TTGTCAAACA	TCATGAGTGC	ACTTTTGCCT	3540
TTTAAATACC	CCATAAAACT	TGAAACACTT	AGCCTCGACG	GAATACTGAC	TAACATGTGT	3600
ACATGGTCTG	GCATTAAGTG	ACCCTCGATC	ATTTCAACAC	СТТТАТААСТ	ACACAAGCGA	3660
TGAAATATTT	CGTCTAAACT	ACTTCTATAT	TGATTATAGA	TGACTTTTCG	ТСТАТАСТТА	3720
GGGGTGAACA	CAATATGATA	GAACACCTCC	ACTTTGTGTA	TGATAAACTA	TGAGTCTTTT	3780
GTGCCATATT	TTTTCTCCTT	TCGCTTTACA	ATTGGATTGA	ACACCTTTAT	TGTATCGCGT	3840
TTGGAGTTTT	TTTGGTATAA	CCTTCGACGC	GCACCCGTAT	AGCGGGTGGT	TGTTTTGTCT	3900
CGCACCTCAC	GGAGCGAGAC	GGACTAATAT	AGTGGAGTGA	AATAGGATAC	GAACAAATTG	3960
ATTAGGAAAA	TCAAATGAAT	TTATAGAAAT	CTTTTAGCAG	TTATAACGTT	CTATTCTAGT	4020
TTCAAAACGC	TATAGTCACA	TAATAATGAA	GTAAAAAAGG	ATAAGTATCA	ACTTATCCTT	4080
TTTTAAAAGA	AAAATCCGAA	GATATTTGGC	CTTCTTCGGA	TTTTTTCTAT	TTTCCACAGT	4140
TTCATGTAAT	TCATCTAGAT	GATGAACAAA	TTAGTTGTTC	TTTCCTCTAC	GGAATAGATA	4200
AAATGCCCCA	AGTAGCAAGA	ACCCTAGACT	TGCCAAGATT	GACTGACCTT	CTCCTGTCTG	4260
AGGGAGATTC	TTTTGATCCG	AATGGTTCTT	TTCCTCTTCA	GATTTTTCCT	TTTCTTTTGA	4320
ATTCTGTACT	TGTGGCTGAG	CTGCTTGCTC	TAGCTTTTTA	AAGACTTCCT	GATCTGGAGC	4380
TGATTCCTGG	GTTTCAGGAT	TATAGTAGGC	AATCTTATAT	TCATCCCCTT	CTTTTCGAAT	4440
GGTATAGACT	CCACGTTTCA	AAACTTGGAA	TTGGTTGGAA	ATAGTAGAGA	CAGAATCATC	4500
ATATTTCACA	ATGCCCCAAA	CTCCTTGTTT	AGCATCATAA	ACAGACTGAA	GGGTTTCGTT	4560
ATTTTCGATG	AGGCTACTTT	CTAACTCTTT	TATCATTTGA	TTGAAGGTGG	CACGATCCAC	4620
GTTAGGAATG	AGCATATAGC	CATAAGAATC	TCTATTTTGC	TTATGAGCCT	GACTAATCGT	4680

AAGAAATTCA	TTTTCAACTT	CCTTGTCTGA	CTGTCCTTCA	TTGATATCCT	TCCAGGCTCC	4740
CTTTTGCAAA	GCCTTACTCA	TACTGATTGA	ACTCTTCTTA	AAGAAAAAGT	AACCAATATT	4800
CTTTTTCGAA	TCGAACGATT	CTAAAAAGAC	ACTTTGGGTT	TCAGGATAAT	CCTTTTCTTG	4860
TTCTGTAAGG	GAGGCTTCTT	TATCATTGAC	ATAGACTTTA	TATGGATTAC	CTGATTCCAG	4920
TTTTCTCTGG	TCAATTGTAG	TTGCAGCAGT	ATCTGTTGAA	GTGTTTTGGA	TATTGCTTCC	4980
TAAAAAGGCG	ATCTTATCCT	TTAGCATAAA	CCAGCTCTTA	TGAGCAGTCA	ATGTTTGATT	5040
CCAGTTGGTG	AAATCCATGG	TTGCTGTCGC	ATTGGCATCA	TCTAGTTTGC	TCGTTCCAAC	5100
GAAAGCAGAC	GGTAAAACTT	TACCTGTATC	GCTATCCGCT	CTCTTAGCAT	CCGTCTCTGT	5160
TGTACCAGGC	ATCTTATATG	GATTAACTGT	TGGCCAGTAG	CCATCGCTAT	AGTGACTCAA	5220
ATCGCCATTG	TAAAGATAGA	ACATCCCATC	ACTCGTATAC	CAACCACGTT	TATTTTCCTT	5280
GTTCATGTGT	TCGTAATTCA	AGGTACGACT	GGAAAAGAGT	GACAAGCCAA	ATCCAAACCC	5340
TTTCTCTGCA	TTGTACATGG	CTGTTTTATC	CATCTTGTTA	AAGGCAGATA	GGTAACTTGG	5400
TCTTGGAACA	CTTGCGACTC	CTGCATCACT	TAACAAGGAT	TGCATCAAAC	TGATATCCTT	5460
ATAAGTCTTC	AAATTCTTAA	AGACATCATA	ATAACTATCC	GATTGAACAA	TGGTCTTCAC	5520
AAGACTCTGC	AAACATTGTT	TGGTTTCTCC	TTCAGACATA	TCCGCTATTC	GGTGAATCCC	5580
TCTTAGTACT	TCTACTGCGG	CCACGTGCCC	CTCGCTATTT	GCACGACTGA	TCGAGCGTCC	5640
ACGACTCATA	TCCATCAACT	CTCCATTCAC	CAGCAAAGGA	GCAAACGATT	TATCAATCCA	5700
GTGGTACATG	GTTTGCATTT	TATCTTTATC	GATTGGATTC	TTGGTCTTTT	GAATGACTGG	5760
CAACAGTTGA	GACAGGCCAT	CAATCAAAAC	ATTCCCATAA	GCACCCGTAT	AGGCAACATT	5820
GGTGTGGTCG	ATATAGGATC	CATCTTGATA	AAAACCTTCA	CCTTGGTCTA	CCAACTTGAA	5880
CACTTGCTCA	ATCGAGCGAA	TGGTAGAAGA	AATTTCTTGA	TCATCCTTAC	GCAGTAAACC	5940
AGCTATTACT	TTTACCCTTC	CCATATCAAC	TAAGTTTCCA	CCTAGAGCCT	TGAATGGGTT	6000
ATCAGTCGTC	TTTCGGAAAT	GTTCGGGATC	TGGTACAAAT	TTTTCAATCA	CATCTGTATA	6060
TTTTTTAATT	TCCTCATCAG	AGAAGTATTC	TTTCATCAGA	GACAAGGTAT	TGTTGATGGC	6120
ACGAGGTGTA	CCGATTTCAT	AATCCCACCA	GTTCCCAACA	ATGCTCTTTT	CACTATTGTA	6180
GACATGTTTA	TGCATCCATT	CCATGGAATC	CCTGACTGTT	CGAACGACAG	TTTCATCTTG	6240
ATAATAACGA	GAAGAAGGAT	TGGTCACTTG	CTTGGCCATC	TCCTCCAATT	TCCGATAAGT	6300
GGCAGTCAGA	TTTGCAGACG	TTTTATAATT	TGAAAATTTT	TCCCACAAAT	AGGTGCGGTC	6360
CGCCTGACTT	GAAATACTGG	ATAGGCTATC	AGCTACCTTT	CCTTCCAATT	CCTGGTTTAA	6420

			556			
TTTGGCCATC	TGTTCATTTT	TAGAATCATA	GTATTGATTC	CCAGCGATGA	TGCCATTCCA	6480
GTCATCCAAA	CGGTCTGTGT	ATGCATCCTT	AACAGAGGCC	AGAATCTTCA	AAGGAATCTT	6540
TTTCACTTCC	TTGCCATCTT	TACTGACAAT	GACATTGGTT	GTCCCTTCCT	TAAGAGGTTC	6600
TAAAATTCCA	TTTTTGACTG	AAGCAACGTC	AGGATTTTCT	ACCTTATAAG	TATAGTCCGC	6660
AAGAGAAAAA	ACATGTTTTT	TTCCAATTGG	TAAATCAATC	TTTTCCTCAA	GCTGTTTATC	6720
TGTTTGAGAA	TCCTCAGAAA	GCTGGTCTGC	TACCTCTACC	AGCTCAATAT	CCTTAAAGGA	6780
AACAGTCCCA	GTTCCTGTTT	CATAGAATAA	CTCCAGCTTG	ATTTTATCAA	CATCTAAAGT	6840
CGGGCTATAG	TCTGCTTCAA	TGGTCTGCCA	GTCCTTTGTT	CCTGACGTCG	TTGCAGAATT	6900
CCACAATCGC	TTGTCCTTAC	CACTTTCCTC	AATGATACGA	ACTTTGGCAA	TCCCGATTTT	6960
ATTATCTGTT	TTAATCTTGA	AACGCAGTTT	ATACTTTTTC	TTAGCTTCAA	TAGGAACCAT	7020
ACGGTGAAGC	GCTGCCCTTA	ATTTCTCATG	GCTTGAGATA	GTGATAGCCC	CATCCTTAGC	7080
CTCAATGACT	CGAGTTGAGG	CATCTGCACT	ATTCTTCTGG	TCTACCCAAG	CTGACCACCC	7140
CCTGAGCTTT	GCTTCCTGTC	CGG				7163
(2) INFORM	ATION FOR SE	EQ ID NO: 68	3:			

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9244 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 68:

CGTTATAACA TACATGTAAG CGGTACCCAA AATGGTGCCA AG	GTCAAAATT TTTAAGGAGG 60	0
AAAATACATG TCTTCACATC CAATTCAGGT CTTCTCAGAA AT	TTGGGAAAC TGAAAAAAGT 120	0
TATGTTGCAC CGTCCAGGCA AGGAGTTAGA AAACTTGTTG CC	CGGACTATC TTGAAAGGCT 180	0
TCTTTTTGAT GATATTCCTT TCTTGGAAGA TGCTCAAAAA GA	AACATGATG CATTTGCCCA 240	0
AGCTCTTCGC GATGAAGGAA TTGAGGTTCT CTACCTAGAA CA	AACTCGCTG CTGAATCATT 300	0
GACCTCTCCA GAAATCCGCG ATCAATTTAT CGAGGAATAC TT	TAGACGAAG CCAACATCCG 360	0
TGATCGTCAA ACCAAGGTTG CTATTCGTGA ATTGCTTCAC GG	GCATCAAGG ACAACCAAGA 420	0
ATTGGTTGAA AAAACAATGG CTGGGATTCA AAAAGTTGAA TT	TGCCAGAAA TTCCTGACGA 480	0
AGCTAAAGAT CTAACTGACT TAGTTGAATC AGAGTATCCA TT	TTGCAATTG ACCCGATGCC 540	0
AAACCTCTAT TTCACTCGCG ACCCATTTGC AACAATTGGA AA	ACGCCGTAT CGCTTAACCA 600	0
CATGTTTGCA GACACTCGTA ACCGTGAAAC ACTCTACGGT AA	AGTATATCT TCAAATACCA 660	0

CCCAATCTAT	GGCGGAAAAG	TGGATTTGGT	CTACAACCGT	GAAGAAGATA	CGCGTATCGA	720
AGGTGGAGAC	GAGTTAGTTC	TTTCTAAAGA	CGTCCTTGCA	GTAGGTATCT	CTCAACGTAC	780
AGACGCAGCT	TCTATCGAAA	AACTTTTGGT	CAACATCTTC	AAGAAAAATG	TTGGCTTCAA	840
GAAAGTTTTG	GCCTTTGAAT	TTGCTAACAA	CCGTAAATTC	ATGCACTTGG	ATACTGTCTT	900
CACTATGGTA	GACTATGACA	AGTTCACTAT	TCACCCAGAA	ATCGAAGGCG	ACCTTCACGT	960
TTACTCAGTT	ACTTACGAAA	ACGAAAAACT	TAAAATCGTT	GAAGAGAAAG	GTGACTTAGC	1020
TGAACTTCTT	GCTCAAAACC	TTGGTGTAGA	AAAAGTTCAT	TTGATTCGTT	GCGGTGGTGG	1080
CAATATCGTA	GCAGCTGCGC	GTGAACAATG	GAACGACGGT	TCTAACACTT	TGACCATCGC	1140
ACCTGGTGTG	GTAGTTGTTT	ATGACCGCAA	TACCGTGACC	AATAAGATTT	TGGAAGAATA	1200
CGGGCTTCGC	TTGATTAAGA	TTCGCGGAAG	TGAATTGGTT	CGGGGCCGTG	GTGGACCTCG	1260
TTGTATGTCT	ATGCCATTTG	AACGTGAAGA	AGTGTAATCG	CTGTTCGATA	TTCGTCAATA	1320
GAAAATGTAA	AAAATAGAAA	GAGGAAATAA	TAAAATGACA	AATTCAGTAT	TCCAAGGACG	1380
CAGCTTCTTA	GCAGAAAAAG	ACTTTACCCG	TGCAGAGTTA	GAATACCTTA	TTGGTCTTTC	1440
AGCTCACTTG	AAAGATTTGA	AAAAACGCAA	TATTCAACAC	CACTACCTTG	CTGGCAAGAA	1500
TATCGCTCTC	CTATTTGAAA	AAACATCTAC	TCGTACTCGT	GCAGCCTTTA	CAACTGCGGC	1560
TATCGACCTT	GGTGCTCACC	CAGAATACCT	CGGAGCAAAT	GATATTCAGT	TGGGTAAAAA	1620
AGAATCTACT	GAAGATACTG	CTAAAGTATT	GGGACGTATG	TTTGACGGGA	TTGAATTCCG	1680
CGGATTCAGC	CAACGTATGG	TTGAAGAATT	GGCAGAATTC	TCAGGCGTTC	CAGTATGGAA	1740
CGGTCTAACT	GACGAATGGC	ACCCAACTCA	AATGCTCGCT	GACTACTTGA	CTGTTCAAGA	1800
AAACTTCGGT	CGCTTGGAAG	GCTTGACATT	GGTATACTGT	GGTGATGGAC	GTAACAACGT	1860
TGCCAACAGC	TTGCTCGTAA	CAGGTGCTAT	CCTTGGTGTC	AATGTTCACA	TCTTCTCACC	1920
AAAAGAACTC	TTCCCAGAAA	AAGAAATCGT	TGAATTGGCA	GAAGGATTTG	CTAAAGAAAG	1980
TGGCGCACAT	GTTCTCATCA	CTGAAGATGC	TGATGAAGCA	GTTAAAGATG	CAGACGTTCT	2040
TTACACAGAC	GTTTGGGTAT	CAATGGGTGA	AGAAGACAAA	TTCGCAGAAC	GTGTAGCTCT	2100
TCTTAAACCT	TACCAAGTCA	ATATGGACTT	AGTTAAAAAA	GCAGGCAATG	AAAACTTGAT	2160
CTTCCTACAC	TGCTTGCCAG	CATTCCACGA	TACTCACACT	GTTTATGGTA	AAGACGTTGC	2220
TGAAAAATTT	GGTGTAGAAG	AAATGGAAGT	AACAGACGAA	GTCTTCCGCA	GCAAGTACGC	2280
TCGCCACTTC	GATCAAGCAG	AAAACCGTAT	GCACACTATC	AAAGCTGTTA	TGGCTGCTAC	2340
ACTTGGTAAC	CTTTATATTC	CTAAAGTATA	ATTTTAGATA	ATAAACCGTC	TACCAACAGC	2400

558

TATGAGGGCT GCGACTAATA GCTTTAGTCC GGTCCTCTTT TATGTAATGG TAATCTATTA 2460 TTTCTTATAA AATATGTGAA AAATCATTAA ATTGAAATCT AAACGCATTC TATTGAGTGT 2520 GATAAAGGAG AATTTATGGC AAATCGTAAA ATTGTAGTAG CTTTGGGAGG AAATGCGATT 2580 CTTTCTTCTG ACCCATCAGC AAAGGCTCAA CAAGAAGCTT TAGTTGAAAC AGCTAAGCAT 2640 CTTGTAAAAT TGATTAAAAA TGGAGATGAT CTGATTATCA CTCACGGTAA TGGACCTCAA 2700 GTTGGGAATC TCTTGCTCCA ACATTTGGCA TCAGACTCTG AAAAGAACCC TGCCTTCCCA 2760 CTCGACTCAC TTGTCGCTAT GACAGAAGGT AGCATCGGTT TCTGGTTGAA AAATGCTTTG 2820 CAAAATGCTC TCTTGGATGA AGGCATCGAA AAAAATGTTG CCTCTGTTGT AACGCAAGTT 2880 GTCGTAGATA AAAATGATCC AGCTTTTGTT AACTTGAGTA AACCAATCGG TCCTTTCTAT 2940 TCAGAAGAAG AAGCAAAAGC AGAAGCCGAA AAAAGCGGAG CGACTTTCAA GGAAGATGCT 3000 GGCCGTGGCT GGCGTAAGGT CGTTGCCTCA CCAAAACCTG TTGACATCAA AGAAATTGAA 3060 ACCATCCGTA CTCTTTTAAA TAATGGTCAA GTCGTCGTAG CTGCAGGTGG TGGCGGTATT 3120 CCCGTCGTCA AAGAAAACAA TGGACATTTG ACTGGTGTCG AAGCGGTTAT TGATAAAGAC 3180 TTCGCTTCCC AACGTTTGGC AGAATTGGTT GATGCAGACC TCTTCATCGT TTTGACAGGT 3240 GTAGATTATG TATTTGTTAA CTACAACAAG CCAAACCAGG AAAAATTGGA ACATGTGAAT 3300 GTTGCCCAGC TGGAAGAATA TATCAAACAA GATCAGTTTG CACCAGGTAG CATGCTTCCA 3360 AAAGTAGAAG CAGCTATCGC TTTTGTCAAT GGTCGTCCAG AAGGAAAAGC AGTTATTACT 3420 TCCCTTGAAA ATCTAGGCGC CTTGATTGAA TCTGAAAGCG GAACAATTAT TGAAAAAGGA 3480 TAAGTTGTTT TACTAATAAG ATGTATTCTA TTTCTAGTAT CTTTATATCA AATTAGAAAT 3540 TATTCTTGAA AACATGTACA ATATTTCAAA AGATACTAGT TTTAGACTTT AATATGGTAA 3600 AACAAATATA AATAGAAAGC GTTTTCTTGA ATGTTTATTT AAGAAAGTAG TTGGTTTTTT 3660 ACACTTTGTT AGACATCAGG AGGAAAAACA AATGAGTGAA AAAGCTAAAA AAGGGTTTAA 3720 GATGCCTTCA TCTTACACCG TATTATTGAT AATCATTGCT ATTATGGCAG TGCTAACTTG 3780 GTTTATCCCT GCGGGGCCT TTATAGAAGG TATTTACGAG ACTCAGCCTC AAAATCCACA 3840 AGGGATTTGG GATGTCCTCA TGGCACCGAT TCGGGCTATG CTAGGTACTC ATCCAGAGGA 39Q0 AGGTTCGCTC ATTAAAGAAA CGAGCGCAGC GATTGATGTA GCCTTCTTCA TCCTTATGGT 3960 TGGTGGTTTC CTTGGCATTG TCAACAAAAC TGGTGCTCTT GACGTAGGGA TTGCCTCTAT 4020 CGTGAAGAAG TATAAGGGCC GCGAAAAAAT GTTAATTTTG GTACTGATGC CTTTGTTTGC 4080 CCTCGGTGGT ACAACTTATG GTATGGGTGA AGAAACAATG GCCTTCTATC CACTCCTTGT 4140 GCCAGTTATG ATGGCCGTTG GTTTTGATAG CCTGACTGGT GTTGCAATTA TTTTGCTCGG 4200

TTCTCAAATC	GGCTGTTTGG	CATCTACTCT	GAATCCATTT	GCGACAGGTA	TTGCTTCAGC	4260
GACTGCGGGA	GTTGGTACAG	GGGACGGTAT	CGTACTTCGT	CTGATCTTCT	GGGTTACCTT	4320
GACTGCTCTT	AGTACTTGGT	TTGTTTACCG	TTATGCGGAT	AAGATTCAAA	AAGATCCGAC	4380
TAAGTCACTG	GTTTATAGTA	CTCGCAAAGA	AGATTTGAAA	CACTTTAACG	TAGAAGAATC	4440
TTCATCTGTA	GAATCTACAC	TTAGCAGCAA	ACAAAAATCA	GTTCTCTTCT	TATTTGTGTT	4500
GACATTCATC	TTGATGGTAT	TGAGCTTCAT	TCCATGGACA	GACCTTGGCG	TTACCATTTT	4560
TGATGACTTT	AATACTTGGT	TGACTGGTCT	TCCAGTTATT	GGTAATATTG	TCGGTTCATC	4620
TACTTCTGCA	CTAGGTACTT	GGTACTTCCC	AGAAGGCGCA	ATGCTCTTTG	CCTTTATGGG	4680
TATCCTGATT	GGTGTTATTT	ATGGTCTTAA	AGAAGATAAG	ATTATCTCTT	CCTTCATGAA	4740
TGGTGCTGCT	GACTTGCTCA	GTGTTGCCTT	GATCGTAGCG	ATTGCTCGTG	GTATTCAAGT	4800
TATCATGAAC	GACGGTATGA	TTACCGATAC	AATCCTCAAC	TGGGGTAAAG	AAGGCTTGAG	4860
CGGTCTATCT	TCACAAGTCT	TTATCGTTGT	AACTTATATC	TTCTATCTAC	CTATGTCATT	4920
CTTGATCCCA	TCTTCATCTG	GTCTTGCCAG	CGCAACTATG	GGTATCATGG	CTCCACTTGG	4980
AGAATTTGTA	AATGTCCGTC	CTAGCTTGAT	TATCACTGCT	TACCAATCTG	CTTCAGGTGT	5040
CTTGAACTTG	ATTGCACCAA	CATCTGGTAT	TGTGATGGGA	GCTCTTGCAC	TTGGACGTAT	5100
CAACATTGGT	ACTTGGTGGA	AATTCATGGG	CAAACTCGTA	GTCGCTATTA	TTGTAGTGAC	5160
CATCGCCCTT	CTTCTCCTTG	GAACCTTCCT	TCCATTCCTA	TAAAATAGTG	AGTGAGGTGA	5220
TTCCATGAAA	ATAGATATAA	CAAATCAAGT	TAAAGATGAA	TTTCTTATAT	САТТАААААС	5280
CTTGATTTCC	TATCCTTCAG	TACTCAATGA	AGGAGAAAAT	GGAACACCTT	TTGGACAAGC	5340
AATCCAAGAT	GTCCTAGAAA	AAACTTTAGA	GATTTGTCGA	GACATAGGTT	TCACTACCTA	5400
TCTTGACCCT	AAAGGTTATT	ACGGATATGC	AGAAATCGGT	CAGGGAGCAG	AGCTTCTGGC	5460
CATTCTCTGT	CATTTGGATG	TTGTTCCATC	AGGTGATGAA	GCAGATTGGC	AGACACCGCC	5520
ATTTGAAGCA	ACTATCAAAG	ACGGCTGGGT	ATTCGGACGT	GGTGTCCAAG	ATGATAAAGG	5580
CCCTTCGCTC	GCAGCTCTCT	ATGCAGTAAA	AAGCTTGCTG	GACCAAGGTA	TTCAGTTCAA	5640
AAAGCGCGTA	CGCTTTATCT	TTGGTACCGA	TGAGGAAACC	CTCTGGCGCT	GCATGGCACG	5700
CTACAATACC	ATCGAAGAAC	AGGCCAGTAT	GGGCTTTGCA	CCTGACTCAT	CTTTTCCTCT	5760
GACCTATGCT	GAAAAAGGGC	TTCTACAGGT	CAAACTTCAT	GGCCCTGGAT	CGGATCAACT	5820
AGAGCTTGAA	GTAGGAGGCG	CCTTTAACGT	TGTACCAGAC	AAGGCCAACT	ACCAAGGTCT	5880
CCTCTATGAA	CAGGTTTGTA	ACGGTCTCAA	AGAAGCTGGT	TATGATTACC	AAACCACTGA	5940

560 ACAAACCGTA ACGGTTCTCG GAGTGCCAAA GCATGCTAAG GATGCTAGTC AAGGTATCAA 6000 TGCTGTCATC CGACTAGCTA CCATTCTTGC TCCTCTCCAA GAACACCCTG CTCTCAGTTT 6060 TCTTGCAACA CAAGCAGGTC AAGACGGCAC AGGAAGACAA ATCTTTGGTG ATATAGCAGA 6120 TGAACCTTCT GGTCACCTAT CCTTTAATGT CGCAGGTCTC ATGATCAATC ATGAACGTTC 6180 TGAAATCCGT ATTGACATTC GGACTCCTGT CTTAGCTGAC AAGGAAGAAC TAGTAGAGTT 6240 GCTTACAAGA TGTGCACAAA ACTACCAACT CCGCTACGAA GAGTTTGACT ATCTAGCGCC 6300 TCTATACGTC GCAGAAGACA GTAAACTCGT TAGCACACTG ATGCAAATCT ACCAAGAAAA 6360 GACTGGCGAT AACAGTCCTG CTATTTCATC CGGTGGTGCC ACTTTTGCTC GCACCATGCC 6420 AAATTGTGTA GCCTTCGGCG CCTTATTCCC AGGAGCGAAG CAGACAGAAC ATCAGGCAAA 6480 TGAATGTGCC GTTCTAGAAG ATTTGTACCG TGCTATGGAT ATTTATGCCG AAGCCGTCTA 6540 TCGACTTGCA ACTTAATCAG GCAACTGTTT CTACCAAAAA AAATCGACCG ATTAATGAAC 6600 TGCACCCCAA AAGTTAGACA GAATAAATCT AACTTTTGGG GTGTTTTATT ATGAAATTGA 6660 GTTATGAAGA TAAAGTTCAG ATCTATGAAC TAAGAAAGCA AGGACAAAGC TTCAAACAGC 6720 TTTCAAAAAG ATTTGGTGTG GATGTTTCTG GTCTAAAGTC ATCTGAATCT TTGAGATGAG 6780 CTTTATAAAT CGCTTTTTC AGTTTTTGCA CTGGTGTTTC GATAAACTCA AACTTTTTAG 6840 CCGTGGTATT GCCTGATTTT ATAGTATATT GAAACTAGAA TAGTACACCT CTCCTTCTAA 6900 AACATTTTTA GAAATCGATT TGACTGTCCT GATCGATTTG TCCTGTTCTT ATTTCATTTT 6960 ACTATATTG AGCCACTTCG TCTTTAACGG CTTTATTCAT AAGCTCTTGT AATTTTTCTT 7020 TACTATCAAT TACTTCTGAT TTTCCGTTGT AATTTATTGT AATAGGTTTT AACTTACCTA 7080 ATTTCTCGAC ACGCTCATTA ATTTGATCTT TTTTGAAGGC TGCTTATGTT TTTCCTAAGA 7140 TTTTTTCAAA AATATATTA TCAGATAGCG GTTTGTCTTC TTCTTCAGCT TGGTTTTTGT 7200 ATTAATTTGA AACATAAGGA ACAAATCCTT CATAGTAACC TAATGCTCCC ATAAGTTCAA 7260 AAGCTTGTTT TCTAATTCAA ACCATTGCAA CTCAGATTTC AGCTTTTCAG ATAAATCCTG 7320 CTCATCCAAA TAATGACTTG AAATTAGTGC TGAACTCGTT TCTGTATCCT GTACAGGCTG 7380 AGCACCCATA CCAGCAAAAA ATAAACTCGT TCCTAGCAAG ACCGAACAAG CTCCTATTGC 7440 ATATGCCTC AAAGAAAAC GCTGCTTTCT CTCAAATTGA AATTCTTTCA TCCCATCTCC 7500 CATCATTCAT TATTACTGTA TATTTTGTAT ATCAGAAATA GTTTGTATTC ACAAATCTTT 7560 CTAGTTATTC CCTTATCATT CCTAATTAAG GGAGATAACA TACAATAATT TTTAGTTAAA 7620 TGTATATCGA TGTTTTTGT TTTTCTTAAT AAACGCAATA CAAAAAGAGC CTGTTACCAA 7680 GCTCTTTGTA CTCAATGAAA ATCAAAGAGC AAATTAGGAA ACTAGCCACA GGTTGCTCAA 7740

i	AACACCGTTT	TGAGGTTGCA	GATAGAACTG	ACGAAgTCAG	CTCAAAACAC	TGTTTTGAGG	7800
,	PTGCAGATAG	AACTGACGAA	GTCAGTAACA	TCTATACGGC	AAGGCGACGC	TGACGTGGTT	7860
7	rgaagagatt	TTCGAAGAGT	ATTAGTCTAT	TATTTCTTCT	CAGCGCGAAG	GGCTGACAAG	7920
1	ATTTGTGTTC	GGATATCATC	CACACCATTT	GGAGTATTTG	GTAAAAAGAT	AGTTTGATTT	7980
(CCTTTAGAGG	CAAAGGTATT	CAAGGTATCC	AAATACTGGT	TGGTCAAGAG	GATAGACATG	8040
1	ATTTGTTCTT	CTGTCATGCC	AACATTGGCT	TCCTTGAGTT	CGGTGATAGA	CTCTGCCAAT	8100
C	CCATCCACAA	TCGCCTTACG	TTGTTGGGCA	ATCCCCACAC	CATGAAGGCG	GTCTTTTTCT	8160
C	CTTCTGCTT	CAGCTGCAGT	GACAATTTTA	ATCTTGTCAG	CTTCCGCCAA	TTCTTGTGCT	8220
C	GCGACCCGCT	TACGTTGCGC	CGCATTGATT	TCATTCATGG	ATTGCTTAAC	TTCTGCATCT	8280
(GTTCGACCT	TGGTAATCAA	GGTTTTCACG	ATAATGTAGC	CGTAAGTGGT	CATTTCTTCT	8340
C	CTACTTGGT	GTTGAACTTC	AAGGGCAATC	TCATCTTTTT	TCTCAAACAA	TTCATCCAAG	8400
C	TTAATTTTG	GAACAGAAGA	GCGAAGAGCA	TCTTCGATAT	AAGATTTAAT	CTGAGATTCT	8460
C	GACGTATGA	GTTTATAGTA	AGCATCTGTC	ACGCTCTGCT	CGTTGACACG	GTACTGAGTC	8520
C	CTACATTCA	TCATAACGAA	CACATTGTCC	TTGGTCTTAG	TCTCAACCAC	AATATCACTT	8580
1	GCAACAAGC	GCAACTGAAT	CCGTGCTGCA	ATCGAGTCAA	TCCCAAAAGG	CAAGCGAATA	8640
ı	GAATACCGC	TATTAGCAAC	CTTTTGGTAT	TTCCCAAAGC	GTTCAATAAT	CGCCACCGAC	8700
1	GCTGACGAA	CCACATAAAC	TGTACTCAGT	GTGACTATCA	CCAATAGGAG	CACACAAACA	8760
P	TCAGAAAAA	TCATGAAAAA	TATTGCCATA	ATGGAACCTC	CACAAGTATT	TTTCTAGTAT	8820
r	'ATAGCACAT	TTAAAGAAGG	CTGTGCCGTT	TTTACTGCGA	TTTTTCCTGA	AATGTCAATA	8880
P	TTAGAGGTG	AATTGTCCTA	TTGTCGTCCA	ATCTCTTGCT	AAAATAACTC	TTTATAAAAG	8940
G	CAATCGTTT	CTTCTAAGGT	TGGCATAAAT	GGATTTCCTG	GTGCGCAGGC	ATCAATCAAG	9000
G	CATTCTTAG	AAAGGTATTC	AAAGTCGAAA	TCTTTTTCTT	CAATACCAAG	TTCAGTCAGT	9060
Ί	TCTTAGGAA	TACCTACTGT	CTCAGAAAGC	TTCTCAATCT	CAGCAATCGC	ATAATCGGCA	9120
C	ATTCTTGAT	CTGATTTACC	TTCTACATGA	AGTCCCAAGG	CTTTGGCAAC	ATTGCGGAAA	9180
G	CTTCTGGTA	CACGTTTAGC	ATTTTCACGT	TCTATAACTG	GTAGCAACAT	GGCACAGCAC	9240
A	.CGG						9244

(2) INFORMATION FOR SEQ ID NO: 69:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8898 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

562

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 69:

GATCTGAACT TTATCATCAT	AACTTAATTT	САТААТАААА	ACACCCCAAA	AGTTAGATTT	60
TTTCTGTCTA ACTTTTGGGG	TGTAGTTCAG	TCATTGGACT	GACGTTTTTT	TGTATGCTTA	120
TTTTGATTTG ATGTAGTTGA	TACCATCTGC	TTTTGGTGCG	ACTGCTTTTC	CAAAGAAGGC	180
TGCTAAGACA AGAATTGTCA	AAACATAAGG	TGCAATTTGA	AGATAAACCG	CTGGCACTCC	240
TTGTAGGAAC GGCAATTGAG	AACCGATAAC	AGCCAAACTT	TGTGAAAGTC	CAAAGAAGAG	300
ACTAGAAAGC ATAGCACCGA	TTGGATTCCA	TTTCCCAAAG	ATCATCGCAG	CAAGGGCGAT	360
AAATCCAGGT CCAACAATAG	TTGTCACTGA	GAAGTTAACT	GAGATTGATT	GCGCATAAAT	420
CGCTCCGCCA ATTCCACCTA	GAAAACCTGA	AATAATAACC	CCTAAATATC	TCATCTTGTA	480
GACGTTGATT CCCAAGGTAT	CCGCTGCTTG	AGGATGTTCA	CCGACAGAGC	GGAGACGAAG	540
ACCAAATTGA GTCTTAAAGA	GAATAAACCA	AGCAAGGAAT	GAGAAGGCAA	TCGCCAGATA	600
ACCAAGTAGA CTAGTTGACT	TGAAGAAGAT	ATCACCAATC	ACTGGGATAT	TTGCCAAGAC	660
TGGGAAATCA AAGCGTCCAA	AAGTTTGACT	TAGGTTGTCG	GTTTGTCCTT	TGTTATAAAG	720
AACTTTAACT AAGAAAACAG	CCAAGGCAGG	CGCCATCAAG	TTCAATACCG	TACCGCTGAC	780
AACATGGTCT GCACGGAAAT	GAACCGTCGC	TGCTGCGTGG	ATGATAGAGA	AAACACTACC	840
AACCAATCCT GCTACAAGCA	AGGATAGCCA	TGGAGTTGCT	GCTCCAAATT	GTTCTGCAAA	900
TTCAAGGTTA AAGACAACTC	CAGAAAAGGC	ACCCATAACC	ATAATTCCTT	CAAGGCCAAC	960
GTTTACCACA CCACCACGTT	CAGAGAAAAC	ACCACCGATA	CTTGTAAAGA	TGAGAGGTGC	1020
TGAGTAAATC AGCATAGAAG	ACACCAAGAG	GGGGAGCAAG	GTTATAATAG	ACATCTTTAC	1080
TTACCTCCTT TAACTTGTTT	TTTCGGTTTG	ACAAAGCGTT	CGATAAGGTA	ATGAACACTG	1140
ACAAAGAAGA TAATAGACGC	TGTTACAATG	CTGACAAGCT	CAGATGGTAC	CTGCGCCGCA	1200
TTCATACCAG GAGCCCCAAC	TTGGAGAACG	CCAAATAGGA	AGGCTGCAAA	GAGTATACCA	1260
ATTGGTGAGT TGGCCGCAAG	CAAACTAACC	GCCATTCCGT	TAAATCCGAT	AGCTAATGAC	1320
GAACCTTGAA CATAGACGTT	CTGGAAGGTT	CCCAAACCTT	CAACAGCTCC	ACCAAGACCT	1380
GCCAAGGCAC CTGAAATAAT	CATAGATAGG	ATAATAGTCC	GCTTGGCAGA	AATACCAGCA	1440
TATTCTGAAG CATGTGGATT	AAGACCAACT	GCACGGATTT	CAAAACCAAG	AGTTGTTTTC	1500
TTGAGCATGA ACCAAATAAC	TGCAACGGCA	ATGATGGCAA	AGAAAATACC	AATATTCATC	1560
CGTGAGTTAC CAGTCAACTC	AGCCAACCAA	GGTGTCTGAT	AGGTTGCATT	AGCCCCAACA	1620

CGAATGGTCG	AATCTGTACT	TTGCATGAAG	TCTTTAGGGA	AAGCATGGAT	AAAGGCATTC	1680
CCTACATACA	AGACAATGTA	GTTCATCATG	ATGGTTACAA	TAACCTCTGA	CGTCCCTAGA	1740
TAGGCCCTAA	GAATACCTGG	AATCGCTCCG	ACAATCCCAC	CAGCAATCAA	GGCAATCACG	1800
ATGGTTGCTA	GAATCATCAA	GGGACGGGGC	ATATCTGGAT	GCGACAGGGC	AAACCAACCA	1860
CTGAGAATCC	AACCTGCCAA	AGCCTGACCA	GGAAGTCCGA	CGTTAAAGAA	ACCAGCTCGA	1920
CTGGCAACGG	CAAAACCAAG	ACCAATCAAG	ACCAGAGGAC	CCATAGCACG	GAAGATTTCT	1980
CCAATCCCAC	GCAGACTGCC	AAAGGCTGTA	TAGAACAATT	CTTCGTAGCC	CCAAATAGCA	2040
TCATAACCGA	AGATCCACAT	GACAATGGCT	CCGAGTAAAA	TTCCTAGGAA	TACAGAAATC	2100
AAGGGAACCG	AAATTTGTTG	TAATTTTTTA	GACATCACTC	TTCTCCTTTC	CCAAGTTTCC	2160
ACCAGCCATC	AAGACACCAA	GTTCTTGTTT	ATTGGTTGTT	TCTGGTGATA	CAATACCTTG	2220
AATCTTACCA	TCGTGGATAA	CGGCAATACG	GTCTGAGACG	TTTAAAATCT	CATCCAATTC	2280
AAAGCTGACA	ACAAGGACAG	CCTTGCCATT	ATCACGCTCT	TCAATCAAGC	GTTTGTGGAT	2340
ATACTCAATG	GCACCGACAT	CCAACCCACG	AGTTGGCTGG	CTAACGATAA	GGAGATCAGG	2400
ATCTCGATCA	ATTTCACGAG	CAATAATTGC	TTTTTGTTGA	TTTCCTCCTG	AGAGTGCAGC	2460
TGCAGGAACT	AATTCACTGG	CAGCGCGAAC	ATCAAACTCT	TCCATCAGCT	TTTTAGCATA	2520
AGAAGTAATA	TTTGAATAAT	TCAAAATTCC	ATTTTTACTA	TGTGGTTCTT	TATAGTAGGT	2580
TTGAAGGGCA	ATATTTTCAG	ATATCATCAT	TTCCAAAATC	AAGCCATCAC	GGTGACGGTC	2640
TTCTGGAACG	TGCCCAACAC	TTAGTTCTGT	AATCTGACGT	GGGTGCAAGC	CTACAATTGA	2700
ATCTCCTTTT	AGCTCAATGC	TACCAGATTC	AACCTTACGA	AGACCTGTAA	TGGCTTGAAT	2760
CAGTTCAGAC	TGACCATTTC	CATCAATCCC	CGCAATACCA	ACAATCTCTC	CAGCACGAAC	2820
ATCCAAGGAC	AGATTTTTAA	CAGCTGGAAC	ACCACGGTTT	TCATTGACCA	CCAAATCTTT	2880
GATAGACAAA	ACCACTTCTT	TTGGTTTAGA	GGCTTGCTTC	TCTGTTTTAA	AGGAAACAGA	2940
ACGTCCTACC	ATCATTTCCG	CCAAATCAGC	ATTGGTAGCC	CCTGCAATTT	CAACGGTTTC	3000
AATTGATTTC	CCACGACGGA	TAACTGTAAC	ACGGTCAGAA	ACTGCTCGAA	TTTCATCCAA	3060
TTTGTGGGTA	ATCAAGATAA	TTGATTTTCC	TTCTTTGACA	AGATTTTTCA	TAATAGCCAT	3120
CAACTCATCA	ATTTCTGATG	GAGTCAAAAC	AGCCGTTGGT	TCGTCAAAGA	TAAGGATATC	3180
AGCCCCCCGA	TAAAGTGTTT	TTAAAATTTC	TACACGTTGT	TGGGCTCCAA	CTGAGATATC	3240
TGCTACCTTG	GCAGAAGGGT	CAACAGCTAA	GCCATAACGT	TCAGAAAGAG	CCTTGATTTC	3300
TTTGCTAGCT	CCAGCGATAT	CTAGCACACC	ATTTTTAGTC	AATTCACTAC	CTAAAATGAT	3360

564 GTTTTCAGCC ACTGTGAAGG CTTCAACCAA CATAAAGTGC TGGTGAACCA TCCCGATTCC 3420 CAAGCTAGCT GCTTTAGATG GGGAGTCGAG ATTGACAACT TGACCGTTGA CCGCGATTTC 3480 ACCACTAGTT GGTTCAAGAA GGCCTGCTAA CATGTTCATT AGCGTGGACT TACCAGCCCC 3540 ATTTTCTCCT AAAAGTGCAT GAATTTCACC TTTTCGTAGG TGCAAGTTGA TTTTGTCGTT 3600 GGCAACAAAT CCACCAAACA CCTTGGTAAT ATCACGCATC TCAATGACAT TTTCGTGTGC 3660 CATGTGCTCT TCCTTTCAGA GTCTTATTTT ATTTCAATAA AACTTGCTAG TTTGTCTAGT 3720 AGCAAGCTTT ACTTAGACAA AATGACTTTG TCTCAACTCT TAAAAAAGCG GCCCTTGGCC 3780 GCTTCCTAAG AAATGACTTC CATCCATTAT TTTTCAGGAA CTTTTACGCT TCCATCAAGG 3840 ATTTTAGCTT TTGCATCTTC GACAGCTTTT TTACCTTCTT CTGAAAGGTT TGTTACTGCC 3900 AAGTCAACCC CTTTATCCTT CAATGAGTAA ACGATCACTT GACCGCCAGG GAATTCTCCT 3960 CTTTCTGCCT TGTTAGAAAT ATCTTTTACA GTTGTACCAA CTTGTTTCAA AGTAGATACA 4020 AGAACAAAGT TTGATTCTTT GCCATCTTTA GAAGTGTATT TACCTTCTGC TTCTTGGTCA 4080 CGATCAACAC CGATAACCCA AACTTTTTCA TTTTCAGGAC GGCTTTCGTT GAGAGATTTT 4140 GCCTCTGCAA AGACACCTGC ACCTGTACCA CCAGCTACTT GGTAAACAAT ATCTGCACCG 4200 GCTGCGTATT GTGCGGCTGC AATTGTTTTA CCTTTAGCCG CATCACCAAA TGAACCAGCG 4260 TAGTCAACTT GGACTTTGAT AGATGGGTCT ACTGACGCAA CACCAGCCTT GAATCCTGCT 4320 TCAAAACGAG AGATAACTTC AGATTCGATA CCACCTACAA AACCAACTTG TTTTGTCTTA 4380 GTTGTTTTTG CTGCAGCCAC ACCTGCAAGg TAACCTGACT CATTATCAGC GAAAGTTACG 4440 CTCGCAACAT TCTTTTGGTC TTTAATCACA TCATCAATCA AGACATAGTT CAAGTCAGTG 4500 TGTTCTTTTG CTGCATCTTT AACTGCATTA TTAAGGGCAA AACCAACACC GAAGATTAGG 4560 TTGTAACTTC CAGCCGCTTG TTGCAAGTTG TTAGCGTAGT CAGCTTCACT TGTTGATTGG 4620 AAGTAAGTGA AACCGTTATC TTTTGAAAGA TTGTGTTCTT TACCCCAAGC CTGCAAACCT 4680 TCCCAAGCTG ATTGGTTGAA TGATTTGTCA TCAACACCAC CAGTATCAGT GACGATTGCT 4740 GCTTTTGTCT TCACATCAGA AGATGAAGCT GCGTTACGAG AAGAGCGGTT ACCACATGCA 4800 GCAAGTCCAA CTGCTGCCAC TGCAACTAGG CCAAGACCTA GCCATTGTTT CTTGTTCATT 4860 ACTGAACCTC CTAAATAAGA TGTGCAACGA TGTTGCAAGT ATGGATTGGT TGGCCACAAG 4920 GACCGTGCCA CTCAGAGAGC GACTCAGACT AGTTTAAGTC TGTAAAAGAG TATGGAAGTA 4980 ATTCCCCGAC CGTCATCTCG ACCGTCGATT TATCTTTTGC GACTAAGGTC ACTTTTAGAT 5040 CTTGTTCAAA AAATTCAGCC ATCACTTGGC GACAAGCACC ACATGGCGAG ATCGGTTTTT 5100 CAGTTTGACC ATAGACAATC AATTCTGAAA ATTCTCTTTG GCCTTCAGAT ATAGCCTTAA 5160

AAATAGCTGT TCTCTCACCG	CAATTGGTCA	AAGGATAGCT	AGCATTTTCA	ATATTCACTC	5220
CCGTGTAAAC ACTTCCGTCT	TTAGCTACTA	AAACTGCTCC	GATAGGAAAG	TGAGAATAGG	5280
GGACATAGGC ATGTTTGCTG	GTTTCAATTG	CCAGTTCAAT	CAACTCAGTA	GTCGCCATCT	5340
GCCAATTCTC CTTTTAAAAT	AGCTACCCCA	GCTGACGTTC	CGATACGGGT	CGCACCTGCT	5400
TCGACAAAGG CAAGAGCATC	TGCATAAGAA	CGAGCTCCAC	CGGCGGCCTT	GACACCCATA	5460
TCAGATCCAA CTGTTTCACG	CATTAATGTA	ACATCTGCTA	TCGTAGCACC	ACCAGTTGAA	5520
AAGCCAGTAG ATGTTTTGAC	AAAGTCAGCC	CCAGCTTTTT	GGGCCAATTG	GCAAACAACA	5580
ACTTTTTCTT GGTCTGTCAG	AAGGCAAGCT	TCAATAATGA	CTTTCACTAA	CTTATCACCA	5640
CTTGCTTCCA CTACTGCGCG	AATATCTGAC	TCAACCAAGG	CTAAATTACC	TGATTTGAGA	5700
GCTCCAACAT TGATCACCAT	ATCAATCTCA	TCTGCACCAT	TTTGGATAGC	TTCTTTTGTC	5760
TCAAATGCTT TCACGGCTGA	AGTTGTTGCT	CCCAAAGGGA	AACCTACTAC	TGTGCAAACC	5820
TTAACATCTG TGCCTTCAAG	TCCTTTTTTA	GCATGTTCAA	CCCAGGTCGG	ATTAACGCAA	5880
ACACTGGCAA AGTCATACTC	TCTAGCCTCA	GACAACAAAC	TATCAATTTG	TTTTTTTTT	5940
GCATCTTGTT TTAAAAGCGT	ATGATCTATA	TATTTATTTA	ATTTCATTTC	GGTTTTCCCT	6000
CCATTTAGGA GATGATTTCT	ACAATTTCAC	GGATTTTTTT	CACTTCATCA	СТТАТТТТАА	6060
CACATTTTTG GAAATCTGTA	ACTAGTTGAG	GTGGAATTTT	TTCATTTGTG	TATACTTTTG	6120
CAACAATTTC ACCCTTTTGA	ACGGAGTCTC	CAATCTTCTT	TTCAAAAACA	ATTCCTGTTT	6180
CATAGTCCAA GGCATCAGAC	TTAACTGCAC	GACCAGCACC	CAGCCTCATG	GCATAAAGAC	6240
CAAAGTCCAT AGCTGGAAGA	GCTGAAATGA	CACCCGTTTC	CTGAGCAGGG	ATTTCCACCA	6300
CATGAGCTAC ATTTACAGGA	CGATAGAGGT	CTTCCAAGTC	TCCACCTTGG	GCTTGCACCA	6360
TTTCCTCAAA CTTAGCCAGT	GCTTGACCAT	TCTCAAGATG	TTGGTGAACT	TCTTCAACAG	6420
TTTTGTTAAC ATTTGCCAAA	CCAAGCATAA	TTTGAGCCAA	TTCACAAATA	AAGTGGGTAA	6480
TATCCTGACG TCCTTGACCT	TGCAAAATCT	CCAATGCTTC	AAGGATTTCC	AGACGATTTC	6540
CAATCGCTCG TCCCAAAGGC	TGGCTCATAT	CCGTAATCAC	TGCTACTGTC	TTCCGTCCAA	6600
CAACCTTACC AAGATCTACC	ATAGTTTGAG	CCAACTCACG	CGCCTCATCA	ACCGTCTTCA	6660
TGAAGGCACC CTCACCGACA	GTCACGTCTA	GCAAAATAGC	ATCCGCCCCT	GCCGCAATTT	6720
TCTTGCTCAT CACCGAACTC	GCAATCAAAG	GAATCGTGTC	GACAGTTGCG	GTCACATCAC	6780
GAAGGGCATA GAGAAGCTTA	TCTGCTTTGA	CCAGCTGGTC	TGATTGCCCA	ATGACAGATA	6840
CTCCAATATC CTGAACCTGA	CGAATAAAAT	CCTCTTGACT	ACGTTCTACT	TGATAGCCCT	6900

566 TAATGGACTC CAATTTATCA ATTGTTCCGC CTGTATGGCC AAGACCACGA CCACTCATTT 6960 TTGCTACAGG CACACCGAAG CTAGCAACAA GAGGAGCTAA AATCAAGGTT ACCTTATCGC 7020 CGACACCACC AGTAGAATGC TTGTCAACTT TCACACCATC AATGGCTGAC AGGTCAAACT 7080 CTTGCCCAGT CTTAACCATA TTCATCGTTA AATCAGAGAT TTCTCGAGTC GTCATTCCTT 7140 TAAAATAAAC AGCCATAGCA AAGGCAGACA TCTGATAATC AGGAACAGTT CCTGATACAT 7200 AGCCTTCTAT CAGCCATTCA ATTTCACTTG AAGTCAGTTC TTGACCGTCT CGTTTTTTTT 7260 GGATTAAATC AACTGCTCTC ATTCTTTCAC ACTTCTAAGG ATATAGTATC CCTTGTCTTT 7320 TTTAAGGATT TCACAATTGC CAAACACATC TTCCATCTTA GACTTGGCAC TTGGAGCTCC 7380 TTGTTTTTC TGGATGACGA TGGTCAAATC TCCACCAATT TCCAAGAAAT CTTTACTTTT 7440 CTCGATGATT TCATGAACGA CTTGCTTGCC CGCACGGATA GGAGGATTGG AAATGACATG 7500 GTCAAATCGC CCTTGAACTC TTGCATAAAT ATTAGATTGA AATATCGTCG CTTTTGCATT 7560 ATTTTTTCA GCATTTCTCT GAGCTAAATC CAGGGCACGA GTGTTAATAT CAACCATGGT 7620 CGCCTGAACT CCGTAAACCT TGACCAAGGA CAAACCTAAT GGACCATAAC CACAGCCTAC 7680 ATCTAGGACT GTCTCTCTT GGTTGACATC CAGACACTTG AGCAAGAGTT GACTTCCAAA 7740 GTCAACCATT TTCTTGCTAA AAACACCCGC ATCTGTCAAA AAAGTCATTT TTTCTCCCAA 7800 CAAGTCCACT CTCAACTCAT GAATGTCGTG AGCAGCGTCA GGATTTTCTG CATAGTACAT 7860 TTTACTCATG ACACTATTTT ACCATAATTT GACTCAAATT GTAAATCGTT TACAAATTGA 7920 TAATAAAACG AAAAAGACCG AAGAAAGCAA GTCACGAAGC CATTTTCTTC AATCTCTTTC 7980 AACACTTATA AATAATAAAC CATTTAGAAC TATAAATATC ACAGTCCAGA TAAAAACAAA 8040 AAGTTTATCA TCTATAATCA GGCAGATTAT TATTTCTATT GCTTAACCTT AAAATACTTT 8100 ATTATCAACA AAATTCCTAA CAAAATGTTT AGATAAAAGC CCAACTGATA CGTTTATGTC 8160 AGGATTTCCA AACTTGTCCA AAGTCGTATC AAATCTTCTA GTGACATGTG GAAGAAATAA 8220 CCCTCTGTCG CAATCCGTAG GACTAAAAAG CAATAACTAC CCGCAGCAAT CCATTTCGTC 8280 CATCGTTTTT TAGTAAGAAA GCAATTAAGA ACGAACAAAT AAAGACAGCT GTTACAATAG 8340 CATGTTCCAT CAAAAAAGTA AAACCGTAAT AGGTTTCCAC AAAGCATCTA CCATTATCTG 8400 CATTGGTTCC TTTTATAAAA GGTAAAGCAA AACTTAAAAT AAAACAGAGT TCCAATATGT 8460 AACGTTTTAA GATTTTCATA GTACACCTCC TATAAGTTGT GAACTAAAAA GCCCCCTTTA 8520 TAAGCTTATA AATCAGTAGA ATCTATCTCC TATTTCATCA ATAAATTGAT CACTTATACT 8580 ATATACCATT GACTTACCAC ATTCAAGAAA CCGCTTTATT TTTTTAGCTT TTTATGGTAT 8640 GATAGACAAA ATATCTAGGG GAAAACAAAT GACCAACGAA TTTTTACATT TTGAAAAAAT 8700

567

CAGCCGCCAG ACTTGGCAAT CTTTACATCG AAAGACAACA CCTCCTTTGA CAGAAGAAGA 8760
ATTGGAATCT ATCAAGAGTT TTAATGACCA AATCAGTCTC CAAGACGTTA CAGATATCTA 8820
TCTCCCCTTG GCTCATTTGA TTCAGATTTA CAAGCGAACT AAGGAAGATT TAGCCTTTTC 8880
AAAAGGAATT TTCCTCCA 8898

(2) INFORMATION FOR SEQ ID NO: 70:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 13188 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 70:

TATCTTAACG AGGATTGGGT TTATCGTCAG TCTTATTGCC CTAATTGTGG GAACAATCCC 60 TTAAATCATT TTGAAAATAA TCGGCCTGTA GCAGATTTTT ACTGTAATCA TTGTAGTGAG 120 GAGTTTGAAC TAAAGAGCAA AAAAGGAAAT TTTTCATCAA CAATCAATGA TGGTGCTTAT 180 GCAACGATGA TGAAGCGTGT GCAGGCAGAT AATAATCCTA ATTTCTTTTT TTTAACTTAC 240 ACAAAAATT TTGAGGTAAA TAACTTTCTT GTCCTTCCGA AGCAATTTGT TACACCGAAA 300 TCGATTATTC AAAGAAAACC ACTTGCACCA ACTGCTAGAC GAGCAGGTTG GATTGGTTGT 360 AACATTGATT TATCACAAGT ACCTTCTAAA GGAAGGATAT TTCTTGTGCA AGATGGACAA 420 GTTAGAGATC CAGAAAAAGT TACAAAAGAA TTTAAGCAAG GTTTATTTTT AAGGAAGAGC 480 TCTCTGTCAT CAAGAGGTTG GACAATAGAA ATTCTAAATT GTATAGATAA GATAGAGGGT 540 TCAGAATTTA CCCTTGAAGA TATGTATCGT TTTGAAAGTG ACCTAAAAAA TATCTTTGTT 600 AAGAACAATC ATATCAAAGA AAAGATTAGG CAACAGCTTC AAATATTAAG AGACAAAGAA 660 ATAATAGAAT TTAAAGGTAG AGGAAAGTAT CGGAAATTAT GAAAACGAAA CAACTTGTTG 720 CATCAGAAGA GGTGTATGAT TTCTTAAAAG TCATCTGGCC TGATTATGAA ACTGAAAGCC 780 GTTACGATAA CCTAAGTTTA ATCGTCTGTA CCTTATCAGA TCCCGATTGT GTGAGATGGT 840 TATCTGAAAA TATGAAATTT GGTGACGAAA AACAACTAGC TTTGATGAAG GAAAAATATG 900 GGTGGGAAGT AGGAGATAAA TTGCCAGAGT GGCTACATAG CTCCTATCAT AGATTATTGT 960 TAATAGGTGA ATTATTGGAA AGCAATCTAA AACTGAAAAA GTATACAGTA GAAATTACAG 1020 AAACTTTATC ACGTTTAGTA AGTATAGAGG CTGAAAATCC AGATGAAGCC GAACGACTTG 1080 TAAGAGAAAA GTATAAGAGT TGTGAAATTG TTCTTGATGC AGATGATTTT CAGGACTATG 1140

			568			
ACACTAGCAT	ATATGAATAG	GTAGATGTTT		AACAAAAAAG	AGGCTCGCAC	1200
CTCTTTTTCT	TATTTCTTTT	TATGATTTAA	TACGGCATTG	AGGACAATAG	CGAGTAGGCT	1260
GGCTACGACG	ATTCCGTTTG	AGAAGAACAT	TTGGAAGGCT	GTCGGCATGC	TGACAAAGAG	1320
ATTACTGTTG	TTGAGACCGA	CACCTGCAGC	GATTGAAACA	GCTGCGATAA	GGAAGTTGTG	1380
TTCATTGTTA	GCAAAGTCAA	CACGGGCGAG	GATTTGCATC	CCTTGAATTG	ATACAAAACC	1440
AAACATTACC	AGCATGGCAC	CACCGAGGAC	GGAGCTTGGA	ATGATTTGGG	CAAGGCCCC	1500
AAACTTAGGA	AGCAGTCCAA	GGAGAACCAG	GAAACCAGCT	GCGTAGTAGA	TTGGCAGGCG	1560
TTTTTTGATG	CCTGACAATT	TAACCAAACC	AACGTTTTGT	GAAAATCCGG	TGTAAGGGAA	1620
GGTGTTAAAG	ATTCCTCCGA	GAAGTACGGC	CAAACCTTCT	GCGCGGTATC	CGTTGCGAAG	1680
GCGCGTGCTG	TCGATTGGAT	CCTTTGTGAT	ATCAGACAAG	GCCAGATAAA	CACCAGTTGA	1740
CTCAACCATA	GACACCGTTG	CGATGATACA	CATCATGACA	ATAGATGAGA	TTTCAAAGGT	1800
TGGCATCCCA	AAGTAGAGTG	GAGTTGGGAC	ATGGACAAGT	GGAGCTACCG	CAACAGGAGA	1860
GAAGTCCACC	AAGCCCATAG	TAGCAGCAAT	GGCAGTTCCA	ACAACCAGAC	CAATCAAAAT	1920
AGAGATAGAC	TTGATAAATC	CTTTGGTAAA	GATGTTGATC	AAGAGGATAA	TCAGAACAGT	1980
AATAGCTGCA	AGCAAGAGAC	TTTGACCAGT	TGGCTCTGGA	ACGTTATTTC	CCATATTTCC	2040
AATAGCGACA	GGGATCAAGG	TTAAACCAAT	CGTGGTAATA	ACAGATCCTG	TTACGATAGA	2100
TGGGAAGAGA	TTGGCTACTT	TTGAGAAGAT	GCCTGAAACA	AGAACCACGT	AAATCCCAGA	2160
TGCGATAAGG	GCACCAAACA	TAGCGCCACT	ACCATGGCTT	TGCCCAATCA	TAATCAAGGG	2220
AGCGACCGAC	TGGAATGCAA	CTCCAAGAAC	GACTGGGAGT	CCAATCCCAA	AGTATTTGTT	2280
GAGTTGGAGT	TGGAGGAAGG	TTGCCACCCC	ACACATGAAG	ATATCTGTAG	AAATCAGGTA	2340
GGTCAACTGC	TCAGCTGAAT	AGCCAAGGGC	TGTCGCAATC	ATGATGGGAA	CCAGGATAGA	2400
TCCTGAGTAC	ATGGCTAGTA	AGTGCTGCAA	GCCAAGAACG	GCTGCTTGCG	AGTGTTTTTC	2460
TTGAGTTTGC	ATTAGAGATC	TGCCTCCTTA	AATACGACTT	GACCATTTTC	AAAACAATCC	2520
AAACGAGCAA	GTGATAGGAC	AGGGTAGCCT	GCTTTTTCAA	GCAAATCACG	ACCATCTTGG	2580
AAGGATTTCT	CAATCACGAT	ACCGATAGCT	TGGACTGTGG	CACCGGCCTG	TTCGATGATT	2640
TGAATCAAGC	CTTTAGCAGC	TTGGCCATTA	GCAAGGAAAT	CGTCGATAAT	CAAAACCTTG	2700
TCCTCTGGTG	AGAGGAATTT	TTCAGCGATA	GAAACGGTGC	TGGTCACCTG	CTTGGTAAAG	2760
GAGTAGACTT	GAGCAGTTAA	GATGCCTTCG	TTCATGGTGA	TGTTCTTAGC	TTTTTTGGCG	2820
AAAATCATGG	GAACGTTTAA	GGCTTCAGCT	GTAAAAACGG	CTGGGGCAAT	ACCCGACGCT	2880
TCAATGGTTA	CGACCTTGGT	AATGCCAGTA	GTAGCAAATT	TTTCCGCAAA	AACCTTACCA	2940

ATCTCTCGCA TCAAGCTAAA	GTCAACTTGG	TGGGTTAAAA	AGGAATCTAC	CTTGAGGATG	3000
TTATCACCCA AGATATGCCC	ATCCTTGAGG	ATGCGCTCTT	CTAATAATTT	CATAAGACCT	3060
CCTAAAGTCT AAAAGTTAAT	TTACTTGTTG	TTTAAATATT	TCTATAGTGA	TCCCTTTTGC	3120
TAATACTATA TATTTGATAA	AACTATTACG	AGCGAAGCGA	GTCTTATCAA	ATATTTCCCG	3180
TTGTAGTGGT ATCATAGACA	ATAATCTTGT	TATTGTCTAT	GACGGGATTT	TTGAGAGTAA	3240
AATAGTTCGG GGAACTATTT	TAGCCTAAGC	CTAGAAATGA	AAGAGCTAGG	GGCTCAAAAA	3300
TTAGGGATGA AATTCCCTGG	ATTCCTGAAA	TTATTCACAG	GATAATTTCA	CCTCCCGTCC	3360
GCACTAATTA AGGGAAATAT	TAAAAAAAGA	CCTACTTAAT	CTCTAAGTAA	GTCCCCTAAA	3420
TAGACATGGC AAAAACGGCC	ATATCTCACT	GCTGACTTAC	TTATTGTTAG	GTGTTCCGGC	3480
ACCTTGTAGA AACGTCGTGC	CAATTCACGA	CATAAACAAG	TAAAACGATA	TTCAATTTTA	3540
AATAGGCTTG AGCCAATGT'I	TTTATTTTAC	ACTAAATAAC	TTTAGAAATC	AACTATTTTG	3600
TTAGTGTTTT GGTTTAAAAA	ACGAACAAAA	AGAAGAGAGG	GTGAACAAAA	ACTCCATTGT	3660
AAGCTAACAG TTATACTAAA	тдаааатсаа	AGAGCAAACT	AGGAAGCTAT	CCACAACCTC	3720
AAAACACTGT TTTGAGGTTG	TGGATAGAAT	TGACAGAGCC	AGTATCATAT	ACCTACGGTA	3780
AGGCGACGTT GACGTGGCTT	GAAGAGATTT	TCGAAGAGTA	TTAGAAGATT	TTTCCATCAT	3840
AAAAGGCATA CTATCAAGCT	TTTAGACACC	TGACAATATG	CCTTTTTCTA	ACTTTAAAGA	3900
CTTTTCCCAA TTTTTATTAT	TCTACTCGCT	AAATCTTAAA	AAATAGCCAT	CTGGATCCAA	3960
AACTGCAAAT TTATGAGGAT	AGATATAGGG	ATCACTGACA	CGAAACTTTC	TTTTGGTCAA	4020
GGGACGATAA ATAGGATAGT	TTGCCTTCAT	CACTCTTTAA	TAGAGTTTTG	AAACATCCTT	4080
TATGCCAAAG GAGAGATTGA	CTCCACGACC	AAAGGGATAG	GTCAGTTCAG	CTAGTTGATC	4140
CTTTGTTCCC TCCTCTAACA	TTAGTTGACA	CTCTTCAAGA	GAAAGAGAAA	GTTTTCTTCT	4200
GGACGTTGGT ATTCAATCCT	AAAACCCAGT	AAACCACAGT	AGAAGGACCG	GGACTGTTCG	4260
ATATTCGATA CAAGCAACTC	GGGAATGACC	GCATTGTAGT	CCATATAGAA	AATCCTTACA	4320
AGTCAATTTC CAAGACAATC	GGTGTATGGT	CTTGGCGAGC	ACCTGAGTCA	ATCATATCAG	4380
ATTTAGTGAC CTTGTCAGCG	ATACGGTTAC	TTGTGAGCCA	GTAGTCGATT	CTCCAGCCTG	4440
TATTGTTGAT TTTAGAAGTT	TTGCTGCGTT	GTGCCCACCA	AGTGTAGCGT	TCAGGAACAT	4500
CGCCATGAAC ATGGCGGAAG	GTGTCTGTAA	ATCCAGTTGC	CAAAAGGTTG	GTAAATCCAG	4560
CACGTTCCTC GTCAGTAAAT	CCAGGTGAAC	GGCGGTTGCT	AGCAGGATTT	GCAAGGTCGA	4620
TTTCATTGTG GGCTACGTTG	TAGTCACCGG	TCGCAAGGAC	TGGTTTTTCT	TTGTCTAGTT	4680

			570			
CAGCCAAATA	CTCAGCATAT	TTGGCATCCC	AGACTTGGCG	TTCTTCCAAG	CGTTTGAGAC	4740
CGTCACCAGC	GTTTGGAGTG	TAAACTTGGG	TTACGAAAAA	TGCATCAAAT	TCTAGAGTGA	4800
TGATACGACC	TTCCAAGTCC	ATGGTAGAAG	GGGCACCGAT	TTCTGGGAAG	CTGATAGTAG	4860
GTGTAAGTTC	TTTCTTATAA	AGGAACATGG	TTCCAGCATA	GCCTTTACGG	GCAGGCTCTT	4920
GGGAAGAGCG	CCACGTGTTT	TCGTAGCCTG	GGAAGAGTTC	TTCTAAAATT	TCCACGTGTT	4980
TCTTTGTAGG	TCCTTTGGCA	GAAAGCTTGG	TTTCTTGGAT	AGCAATGATA	TCAGCATTTT	5040
CAGCGACCAA	GGTTTGTAGG	ACTTCTTGGG	ACAATTTGGC	ACGAGCTGAG	TCACTAGTTA	5100
GGGCAGCGTT	TAGGGAATCA	ATATTCCATG	AGATAAGTTT	CATAAAGTTA	CCTTTTTCAT	5160
TCAGATTATA	GATTTTATTA	TACCAAAAAA	AGATCTATTT	CCCCAACGTA	TGGTTTGAAA	5220
AATTACTCTC	TTTCGTTTAT	AATTAAGAAT	GATTTTATGA	AAGGGAGTGA	AAATACATGA	5280
AATTCTACTC	TTATGACTAT	GTACTCAGCC	AAATCGGTCA	GCAAAATGGT	ATCATGGTTG	5340
GCTTTGGGAT	TGTTCTATTA	GCTGTGACAG	TTTTTTTTGC	TTTCAAGGCA	TACCATAATA	5400
AAAAGGGAAG	CGAATTTCGT	GAGTTGGTCA	TGATTTCAGA	TCTGGCCTTA	TTTAGCTCTG	5460
CTTTTGGTCA	GCATCACGAC	TTATCAAAAC	AATCAAGTTT	CTAACAATAA	ATTTCAAACT	5520
TCACTTCATT	TCATCGAGGT	TGTTTCCAAA	GATTTGTGAG	TAGACAAGTC	AGAAGTCTAT	5580
GTTAATACTT	CCACAAACAC	AGATGGCGCA	CTTATCAAGG	TGGGAGATCG	CTATTATCGT	5640
GCCCTAAATG	GAAGTGAGCC	AGACAAGTAC	CTGTTAGAGA	AAGTCGAATT	GTATAAGACA	5700
GACGCAATTG	AACTGGTGGA	TGTGAACAAA	TGACACTTAA	TTATATCGAA	ATTTTAATCA	5760
AACTGGTCTT	GACTCTCAAA	TAGCTCAACA	ACAATGTTCA	CTTTGTGAAA	CGTTTGATTG	5820
ATGGTAAGCC	AACTCTCCTT	ATCAAAAATG	GGAATATTGA	CCCAGAAGCC	TGTCGTTCAG	5880
TTGGTTTGTC	TGCATCGGAT	GTATCCCTCA	AACTTCGTAG	CCAAGGGATT	TTCCAGATGA	5940
AGCAAGTCAA	ACGAGCTGTG	CAAGAGCAAA	ATGGGCAACT	CATCGTTGTG	CAAATGGGAG	6000
ATGAAAATCC	TAAGTATCCA	GTTGTGACTG	ACGGTGTGAT	TCAAGTAGAT	GTCTTGGAAT	6060
CGATTGGTCG	TAGCGAAGAG	TGGTTGCTTG	ATAACCTCAG	TAAACAAGGG	CATGACAATG	6120
FAGCCAATAT	CTTTATTGCT	GAATATGACA	AGGGTGCTGT	TACAGTCGTA	ACTTATGAAT	6180
AAGAAAAACC	TGGGGTCTTG	TACTCTTCGA	AAATCTCTTC	AAACCGCGTC	AACGTCGCCT	6240
IGCCGTATGT	AGGTTACTGA	CTTCGTCAGT	TCTATCTACA	ACCTCAAAGC	AGTGCTTTGA	6300
GCAGCCTGCG	GCTAGTTTCC	TAGTTTGCTC	TTTGATTTTC	ATTGAGTATT	GGCCTCAGGT	6360
TTCCATTTGC	AATCAGAAAG	GGATTTTATG	TCCATTATTC	AAAAACTTTG	GTGGTTTTTC	6420
AAGTTAGAAA	AACGCCGTTA	TCTAGTCGGA	ATTGTGGCCC	TGATCTTGGT	TTCCGTCCTC	6480

AATCTCATTC	CTCCTATGGT	TATGGGGCGG	GTCATTGATG	CCATCACATC	GGGGCAATTA	6540
ACCCAGCAGG	ACCTCCTTCT	TAGCCTATTT	TACTTGCTAC	TTGCAGCCTT	TGGTATGTAC	6600
TATTTGCGCT	ATGTGTGGCG	TATGTATATC	CTTGGGACCT	CTTATTGCTT	GGGACAGATC	6660
ATGCGGTCTC	GCTTGTTTAA	GCATTTCACA	AAAATGTCGT	CAGCCTTTTA	TCAAACCTAT	6720
CGGACGGGTG	ATCTGATGGC	ACACGCAACC	AATGATATCA	ATGCCTTGAC	TCGTTTAGCA	6780
GGTGGCGGTG	TCATGTCTGC	GGTGGATGCC	TCTATCACGG	CTCTGGTGAC	TTTGTTGACC	6840
ATGCTCTTTA	GCATCTCATG	GCAGATGACT	CTTGTTGCCA	TTCTCCCCCT	ACCTTTCATG	6900
GCCTATACGA	CTAGTCGCCT	AGGGAGAAAG	ACTCATAAGG	CCTTTGGCGA	ATCCCAAGCT	6960
GCTTTTTCTG	AACTCAATAA	CAAGGTACAG	GAGTCCGTAT	CAGGTATCAA	AGTGACCAAG	7020
TCTTTCGGTT	ATCAGGCAGA	CGAGTTGAAG	TCTTTTCAGG	CAGTCAATGA	ATTAACCTTC	7080
CAAAAGAACC	TGCAAACCAT	GAAATATGAT	AGTCTCTTTG	ACCCTATGGT	TCTCTTGTTT	7140
GTTGGTTCGT	CCTATGTTTT	AACGCTTTTG	GTTGGCTCCT	TGATGGTTCA	GGAAGGGCAG	7200
ATTACAGTTG	GGAATCTAGT	CACCTTTATC	AGCTATTTGG	ATATGCTGGT	CTGGCCTCTT	7260
CTGGCCATCG	GTTTCCTCTT	TAATACTACT	CAGCGAGGGA	AGGTTTCTTA	CCAGCGGATT	7320
GAAAATCTTT	TGTCTCAGGA	ATCTCCTGTA	CAAGACCCTG	AGTTTCCTCT	GGATGGTATT	7380
GAAAATGGGC	GTTTGGAGTA	TGCCATTGAC	AGCTTTGCTT	TTGAAAATGA	GGAAACACTG	7440
ACGGATATTC	ACTTTAGTTT	GGCAAAAGGG	CAAACACTGG	GCTTGGTTGG	GCAGACAGGC	7500
TCTGGGAAAA	CGTCCTTAAT	CAAGCTCCTC	TTGCGTGAAT	ACGATGTGGA	TAAGGGTGCC	7560
АТТТАТСТАА	ACGGTCACGA	TATTCGGGAC	TATCGTCTGA	CAGACCTTCG	CAGTCTCATG	7620
GGCTATGTTC	CTCAGGACCA	GTTTCTTTTT	GCGACTTCAA	TCCTAGACAA	TATCCGCTTT	7680
GGCAATCCTA	ACTTGCCCCT	TTCAGCGGTC	GAGGAAGCTA	CTAAGCTAGC	CCGGGTTTAC	7740
CAAGATATTG	TAGACATGCC	TCAAGGATTT	GATACGCTGA	TTGGTGAAAA	AGGAGTCACT	7800
CTTTCTGGTG	GTCAAAAGCA	ACGGTTGGCT	ATGAGTCGGG	CTATGATTTT	AGACCCTGAT	7860
ATCTTGATTT	TGGATGATTC	CTTATCCGCC	GTAGATGCCA	AGACAGAGTA	TGCGATTATC	7920
GACAACCTCA	AGGAGATGCG	AAAGGACAAG	ACAACCATTA	TCACTGCCCA	TCGCCTCAGT	7980
GCTGTTGTCC	ATGCAGATTT	TATTTTAGTT	CTACAAAATG	GTCAAATTAT	CGAACGAGGC	8040
ACGCACGAAG	ACTTGCTAGC	TTTGGATGGC	TGGTATGCCC	AAACCTACCA	GTCTCAGCAG	8100
TTGGAAATGA	AAGGAGAAGA	AGATGCAGAA	TAAACAAGAA	CAATGGACTG	TATTGAAGCG	8160
CTTGATGTCT	TATCTCAAGC	CTTATGGACT	CCTGACCTTT	TTGGCACTCA	GTTTTCTCCT	8220

AGCGACGACG	GTCATTAAAA	GTGTCATACC	572 CCTCGTGGCT	TCCCACTTTA	TCGACCAGTA	8280
TCTCAGCAAT	CTTAACCAAC	TAGCCGTTAC	CGTTTTGCTG	GTCTACTATG	GTCTCTACAT	8340
CCTACAAACT	GTAGTTCAGT	ATGTCGGCAA	TCTTCTCTTT	GCGCGCGTGT	CTTACAGTAT	8400
TGTTAGGGAT	ATTCGTCGGG	ATGCCTTTGC	CAATATGGAG	AAACTGGGCA	TGTCTTACTT	8460
TGACAAGACG	CCAGCAGGTT	CTATCGTTTC	TCGTTTGACC	AACGATACCG	AGACGATTAG	8520
TGATATGTTT	TCTGGGATTT	TATCCAGCTT	TATCTCAGCA	GTTTTTATCT	TTCTGACAAC	8580
CCTTTATACC	ATGTTGGTGC	TGGATTTTCG	TTTGACGGCT	TTAGTCTTGC	TCTTTCTTCC	8640
TTTGATTTTC	CTTTTGGTCA	ATCTCTATCG	AAAAAAGTCA	GTGAAAATCA	TCGAGAAAAC	8700
CAGAAGTCTC	TTGTCAGATA	TCAATAGTAA	GCTGGCAGAG	AATATCGAGG	GAATCAGGAT	8760
TATTCAGGCC	TTTAATCAAG	AGAAGCGCCT	GCAGGCAGAA	TTTGATGAAA	TCAACCAAGA	8820
ACACTTGGTC	TACGCCAACC	GTTCTGTAGC	CTTGGATGCC	CTCTTTTTGA	GACCTGCCAT	8880
GAGTTTGCTG	AAACTTCTAG	GCTATGCAGT	CTTGATGGCC	TACTTTGGCT	ACCGTGGTTT	8940
TTCTATCGGG	ATAACGGTCG	GGACCATGTA	TGCCTTTATC	CAGTACATCA	ACCGCCTTTT	9000
TGACCCCTTG	ATTGAGGTGA	CGCAAAACTT	TTCAACTCTG	CAAACGGCTA	TGGTTTCTGC	9060
AGGTCGTGTC	TTTGCCCTGA	TAGACGAGAG	GACCTATGAA	CCTCTTCAAG	AAAATGGGCA	9120
AGCCAAAGTC	CAAGAAGGCA	ATATCCGTTT	TGAACATGTG	TGTTTCTCAT	ATGACGGTAA	9180
ACATCCGATT	CTGGATGACA	TTTCTTCTC	TGTTAATAAG	GGTGAAACCA	TTGCCTTTGT	9240
AGGTCATACA	GGTTCAGGGA	AATCGTCTAT	TATCAATGTC	CTCATGCGCT	TTTATGAATT	9300
CCAGTCAGGG	AGAGTTCTCT	TGGATGATGT	GGATATCAGG	GATTTCAGTC	AAGAAGAGCT	9360
GAGAAAAAAC	ATCGGTTTGG	TCTTGCAGGA	ACCCTTCCTC	TATCATGGAA	CTATTAAGTC	9420
CAATATCGCC	ATGTACCAAG	AAACCAGTGA	TGAGCAGGTT	CAGGCTGCGG	CAGCCTTTGT	9480
GGATGCAGAT	TCCTTTATTC	AAGAACTTCC	TCAGGGGTAC	GACTCCCCTG	TTTCCGAGCG	9540
TGGTTCGAGC	TTCTCTACTG	GGCAACGCCA	GCTTCTTGCC	TTTGCTAGAA	CAGTCGCCAG	9600
CCAGCCTAAA	ATCCTGATTT	TGGATGAAGC	GACAGCCAAT	ATTGACTCTG	AAACAGAAAG	9660
CTTGGTTCAA	GCTTCTCTGG	CGAAGATGAG	ACAGGGCCGA	ACAACTATTG	CTATCGCTCA	9720
CCGCCTTTCT	ACTATTCAAG	ATGCCAACTG	CATCTATGTC	TTGGATAAGG	GACGCATTAT	9780
CGAGAGTGGA	ACCCATGAGG	AACTCTTGGC	TCTGGGAGGA	ACCTATCACA	AGATGTATAG	9840
TTTGCAGGCA	GGGGCCATGG	CCGATACTCT	TTGAAAATCT	CTTTAAACCA	TGTCAGCTTT	9900
ATCTGCAATC	TCAAAGCTGT	ACTTTGATTT	TCATTGAGTA	CTAGAAGGAA	ATCCTTCAAA	9960
TTACAGATTT	CTTTCACCGC	CTTTTCCATT	TTGTGGTATA	ATGAAAAATG	TTGACAAATA	10020

GTATAATAAA	AACAAAGGAG	AACAGCATGC	TGAAATGGGA	AGACTTGCCT	GTGGAAATGA	10080
AATCAAGCGA	GGTTGAGTCT	TACTACCAGC	TTGTCTCTAA	AAGGAAGGGT	TCGCTGATTT	10140
TCAAGCGTTG	CTTGGACTGG	GTTTTGGCCT	TGGTCTTACT	GGTTCTGACC	TCTCCCATCT	10200
TTCTCATCTT	GAGCATTTGG	ATCAAGTTGG	ATAGCAAAGG	GCCAGTGATT	TACAAGCAAG	10260
AGCGTGTGAC	CCAGTACAAC	CGTCGGTTCA	AGATTTGGAA	GTTTCGTACC	ATGGTGACGG	10320
ATGCGGATAA	AAAAGGAAGT	CTGGTGACTT	CTGCTAACGA	TAGCCGCATT	ACCAAGGTTG	10380
GAAATTTCAT	CCGACGTGTC	CGTTTGGACG	AACTGCCTCA	GTTGGTCAAT	GTCCTTAAAG	10440
GTGAGATGTC	CTTTGTCGGT	ACACGACCTG	AAGTGCCACG	TTATACAGAG	CAGTATAGCC	10500
CTGAAATGAT	GGCAACCTTG	CTCTTGCAAG	CAGGGATTAC	CTCTCCAGCC	AGCATCAACT	10560
ACAAGGATGA	GGACACAATT	ATCAGTCAAA	TGACGGAGAA	AGGTCTGTCA	GTTGATCAGG	10620
CCTATGTGGA	GCATGTTCTT	CCTGAAAAGA	TGCGCTATAA	CCTCGCCTAT	CTCCGAGAGT	10680
TTAGTTTCTT	TGGGGACATC	AAAATCATGT	TTCAAACCGT	GTTTGAGGTA	СТААААТААА	10740
GTAGTCATAA	GAAAATGAGT	ACAGATAAAA	GGAGCAAATC	AATGCCAAAT	TACAATATTC	10800
CATTTTCACC	GCCTGATATC	ACAGAAGCAG	AAATTACTGA	AGTAGTGGAT	ACCCTGCGTT	10860
CTGGTTGGAT	CACAACAGGT	CCTAAAACAA	AAGAACTGGA	GCGCCGCTTG	TCTCTTTACA	10920
CACAGACACC	TAAGACTGTT	TGTCTCAACT	CTGCGACAGC	CGCTCTGGAG	TTGATTTTAC	10980
GCGTTTTGGA	AGTGGGACCT	GGTGATGAAG	TCATCGTTCC	AGCCATGACC	TATACGGCTT	11040
CATGTAGTGT	CATTACGCAC	GTGGGAGCAA	CCCCTGTCAT	GGTGGATATC	CAAGCAGATA	11100
CGTTTGAGAT	GGACTATGAC	CTGCTTGAGC	AAGCTATCAC	TGAGAAAACT	AAGGTGATTA	11160
TTCCAGTAGA	GCTCGCAGGG	ATTGTTTGCG	ATTATGACCG	TTTGTTCCAA	GTCGTGGAGA	11220
AAAAACGTGA	CTTCTTTACC	GCTTCAAGCA	AGTGGCAAAA	GGCCTTTAAC	CGTATTGTCA	11280
TTGTCTCTGA	TAGTGCCCAC	GCTTTGGGAT	CTATTTATAA	AGGACAACCT	TCTGGTTCTA	11340
TCGCTGACTT	TACTTCCTTC	TCATTCCATG	CAGTTAAGAA	CTTTACAACG	GCAGAAGGTG	11400
GAAGTGCGAC	TTGGAAAGCC	AATCCAGTGA	TTGATGACGA	AGAGATGTAC	AAGGAATTCC	11460
AAATCCTTTC	CCTTCACGGG	CAAACTAAGG	ATGCTCTTGC	CAAGATGCAA	CTGGGGTCAT	11520
GGGAATACGA	TATCGTTACA	CCAGCCTATA	AGTGCAACAT	GACCGATATC	ATGGCTTCAC	11580
TTGGTTTGGT	ACAATTGGAC	CGCTATCCAA	GTTTGTTGCA	ACGCCGTAAG	GACATTGTGG	11640
ACCGCTATGA	TAGTGGTTTT	GCAGGTTCTC	GCATCCATCC	TTTGGCACAC	AAGACTGAAA	11700
CTGTCGAATC	TTCACGCCAC	CTCTACATCA	CCCGTGTAGA	AGGAGCAAGC	CTAGAAGAAC	11760

574 GCAACCTCAT CATCCAAGAA TTGGCTAAAG CAGGAATTGC AAGTAATGTT CACTACAAAC 11820 CGCTTCCTCT CTTGACAGCC TATAAGAATC TTGGATTTGA TATGACGAAC TATCCTAAGG 11880 CCTATGCCTT CTTTGAGAAT GAAATTACCC TCCCTCTTCA TACTAAATTA AGCGATGAAG 11940 AAGTAGACTA TATCATTGAG ACTTTCAAAA CAGTTTCTGA AAAAGTGCTA ACTTTATCAA 12000 AAAAATGACA AACTACAGTC AAGCGAAAGT GATCCTGCCC CTAAAAAGTC TAATTGAGTG 12060 TAAAAACTGT TGTTTTCAAT TGATAATAGT TTACACCTGT AGTTGAGGCC CCTTTCTCCT 12120 CAGAGAGAA ATTTTATAG GATTTTCCTT TCTTGTGGGA GTCCCGTGGT TTGAAATAAG 12180 ATGTGAGCAA TTTAGTGTAG CATTTAGAAT CCTTACTAGA CATCATTTAG AAAATCTAGT 12240 GTCTTGTTCT AGTTTTCAAT TCACCCTATT TTTTGAAAGA CGTGAGTTTC CATGAGTGAG 12300 ATTGTGGAAA CTCGCGTCTT TTTTTGTTTT CAGAATATTG TTCAAAATTT TGTGCCTGTC 12360 TTTCATGTTC TAGTCATTCT TTTGCATGAT AGAATTTATA GCATGTTGAT ATTATAATAA 12420 TACAAATATT CTATATGTTT AGTGATGCTT GCTATACATT ATTAGATCTC CTGCGAGACA 12480 ATCTATAAAA CACTTGTCTA CGATTACCTA TATGCCCTAT TCCAGTATTT TAGAAGCACT 12540 GCATCTATTT TTATCGAGGT TAAATCTAGC TTTTATAGAA GGTCTATTTA AGAAATATAT 12600 TGTAGTGTTT TAGTTTCAAT CCGCCATATG AGCGATATTC AGGTAAATAT CCCTGGCGAA 12660 TGCTTGTATG ACAAGGTATT TGTTCTTTCA TTTATAATTT ACAACATATC AACAAATTTA 12720 AATATAGTAA ATGGGATATT TTATATTCAA GCTAAGAAAG ATAGCATCAC TTTTGAATGG 12780 AAGGCTAAAG AGCAAACTAG GAAGTTGGCC ATAGATAGCT CAAAACCCTG CTTTGAGGTT 12840 GTAGATATAG TAAAATGAAA TGAGAATAGG ACAAATTGAT CGGGACAGTC AAATCGATTT 12900 CTAACAATGT TTTAGAAGTA GAGGTGTACT ATTTTAGTTT CAGTCTACTA TAGAACTGAC 12960 CAAGTCAGTA ACCTAGACTT AGGGCAAGGC GGCACTGACC TAGTTTGAAG AGATTTCCGA 13020 AGAGTATAAA TTTTAATATT TTCTTGTGTT ATTCCTTGAC AATTCAATTT GGAAAATATA 13080 TGATAAAGAT AATGACAGCG GTGTCATTCT ATCTATTTTA AGAAAAGTAA TAATCAATTG 13140 TTAAAAATAG TAAAAAATT GGAGGTTCTG ATGAAATATT TTGTTCCG 13188

(2) INFORMATION FOR SEQ ID NO: 71:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 32768 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:

3 3 CC 3 CMC C3 3	max amamax a	a	maaamaaaa			
AACGAGTGCA	TCAGTCTCAG	CAAGCACCAG	TGCGTCGGCC	TCAGCAAGCA	CCAGCGCGTC	60
TGAATCCGCA	TCAACCAGTG	CCTCAGCTTC	AGCAAGTACC	TCAGCATCTG	AATCAGCATC	120
AACAAGTGCA	TCGGCTTCAG	CAAGCACAAG	TGCTTCAGCC	TCAGCAAGTA	TCTCAGCGTC	180
TGAATCGGCA	TCAACGAGTG	CGTCCGCTTC	AGCAAGTACT	AGCGCCTCAG	CATCAGCGTC	240
AACAAGTGCT	TCGGCTTCAG	CGTCAACGAG	TGCGTCTGAG	TCAGCATCAA	CGAGTACGTC	300
AGCCTCAGCA	AGCACATCAG	CTTCTGAATC	TGCATCAACC	AGTGCGTCAG	CCTCAGCATC	360
GACAAGCGCC	TCAGCTTCAG	CAAGTACCAG	TGCGTCAGCC	TCAGCAAGTA	CCAGTGCTTC	420
AGCCTCAGCG	TCGACAAGTG	CGTCGGCCTC	AACCAGTGCA	TCTGAATCGG	CATCAACCAG	480
TGCGTCAGCC	TCAGCAAGTA	CTAGCGCCTC	AGCCTCAGCA	TCAACGAGTG	CGTCCGCTTC	540
AGCAAGTACT	AGTGCATCAG	CATCAGCATC	AACGAGTGCA	TCGGCTTCAG	CAAGTACCAG	600
CGCCTCAGCT	TCAGCAAGCA	CCAGTGCGTC	AGCCTCAGCA	AGTACCAGCG	CCTCAGCCTC	660
AGCAAGCACC	AGTGCCTCAG	CTTCAGCAAG	TACCAGTGCG	TCAGCCTCAG	CGTCGACAAG	720
TGCGTCGGCT	TCAGCAAGTA	CCTCAGCGTC	TGAATCAGCA	TCAACGAGTG	CATCAGCTTC	780
AGCATCAACA	AGTGCTTCAG	CTTCAGCAAG	TATCTCAGCG	TCTGAATCGG	CATCAACGAG	840
TGCGTCCGCT	TCAGCAAGTA	CTAGCGCCTC	AGCATCAGCG	TCAACAAGTG	CTTCGGCTTC	900
AGCGTCAACG	AGTGCGTCTG	AGTCAGCATC	AACGAGTACG	TCAGCCTCAG	CAAGCACATC	960
AGCTTCTGAA	TCTGCATCAA	CCAGTGCGTC	AGCCTCAGCA	TCGACAAGCG	CCTCAGCTTC	1020
AGCAAGTACC	AGTGCGTCAG	CCTCAGCAAG	TACCAGTGCT	TCAGCCTCAG	CGTCGACAAG	1080
TGCGTCGGCC	TCAACCAGTG	CATCTGAATC	GGCATCAACC	AGTGCGTCAg	CCTCAGCAAG	1140
TACTAGCGCC	TCAGCCTCAG	CATCAACGAG	TGCGTCCGCT	TCAGCAAGTA	CTAGTGCATC	1200
AGCATCAGCA	TCAACGAGTG	CATCGGCTTC	AGCAAGTACC	AGCGCCTCAG	CTTCAGCAAG	1260
CACCAGTGCG	TCAGnCTCAG	CAAGTACCAG	CGCCTCAGCC	TCAGCAAGCA	CCAGTGCCTC	1320
AGCTTCAGCA	AGTACCAGTG	CGTCAgCCTC	AGCGTCGACA	AGTGCGTCGG	CTTCAGCAAG	1380
TACCTCAGCG	TCTGAATCAG	CATCAACGAG	TGCATCAGCT	TCAGCATCAA	CAAGTGCTTC	1440
AGCTTCAGCA	AGTACCAGTG	CGTCGGCTTC	AGCATCAACG	AGTGCTTCAG	TCTCAGCGTC	1500
AACCAGTGCC	TCTGAATCAG	CATCAACAAG	TGCCTCGGCT	TCAGCAAGCA	CCAGTGCGTC	1560
GGCTTCAGCA	AGTACTAGTG	CATCGGCTTC	AGCATCGACA	AGTGCGTCTG	AATCGGCATC	1620
AACGAGTGCT	TCGGCTTCAG	CATCAACGAG	TGCGTCAGCC	TCAGCAAGCA	CATCAGCTTC	1680
TGAATCTGCA	TCAACCAGTG	CGTCCGCTTC	AGCGTCAACC	AGTGCGTCGG	CTTCAGCGTC	1740

576 GACAAGTGCT TCGGCTTCAG CATCAACGAG TGCGTCGGCC TCAGCAAGCG CAAGTACCTC 1800 AGCGTCAGCT TCCGCCTCAA CCAGTGCGTC GGCTTCAGCA AGCACAAGTG CGTCAGCCTC 1860 AGCAAGTATC TCAGCGTCTG AATCGGCATC AACGAGTGCG TCTGAGTCAG CATCAACGAG 1920 TACGTCAGCC TCAGCAAGCA CATCAGCTTC TGAATCTGCA TCAACCAGTG CGTCAGCCTC 1980 AGCATCGACA AGCGCCTCAG CTTCAGCAAG TACCAGTGCT TCAGCCTCAG CGTCGACAAG 2040 TGCGTCGGCC TCAACCAGTG CATCTGAATC GGCATCAACC AGTGCGTCAG CCTCAGCAAG 2100 TACTAGTGCA TCAGCTTCAG CATCAACGAG TGCATCGGCT TCAGCATCAA CCAGTGCCTC 2160 GGCTTCAGCG TCAACCAGTG CGTCAGCTTC AGCAAGTACC AGTGCTTCAG TCTCAGCATC 2220 AACAAGTGCT TCAGCCTCAG CATCGACAAG TGCCTCGGCT TCAGCAAGCA CATCAGCATC 2280 TGAATCAGCG TCAACCAGTG CTTCGGCTTC AGCAAGTACC AGTGCTTCAG CTTCAGCATC 2340 AACCAGCGCC TCGGCCTCAG CAAGCACCTC AGCTTCTGAA TCGGCCTCAA CCAGCGCCTC 2400 GGCCTCAGCA AGCACCTCAG CTTCTGAATC GGCCTCAACC AGCGCCTCAG CCTCAGCATC 2460 AACGAGTGCT TCGGCTTCAG CAAGCACAAG CGCCTCGGGT TCAGCATCAA CGAGTACGTC 2520 AGCTTCAGCG TCAACCAGTG CTTCAGCCTC AGCATCAACA AGTGCGTCAG CCTCAGCAAG 2580 TATCTCAGCG TCTGAATCGG CATCAACGAG TGCGTCTGAG TCAGCATCAA CGAGTACGTC 2640 AGCCTCAGCA AGCACCTCAG CTTCTGAATC GGCCTCAACC AGTGCGTCAG CCTCAGCATC 2700 GACAAGCGCC TCAGCTTCAG CAAGTACCAG TGCTTCAGCC TCAGCGTCGA CAAGTGCGTC 2760 GGCCTCAACC AGTGCATCTG AATCGGCATC AACCAGTGCG TCAGCCTCAG CAAGTACTAG 2820 TGCATCGGCT TCAGCATCAA CCAGTGCCTC GGCTTCAGCG TCAACCAGTG CGTCAGCTTC 2880 AGCAAGTACC AGTGCTTCAG TCTCAGCATC AACAAGTGCT TCAGCCTCAG CATCGACAAG 2940 TGCCTCGGCT TCAGCAAGCA CATCAGCATC TGAATCAGCG TCGACAAGCG CCTCAGCTTC 3000 AGCAAGTACC AGTGCGTCAG CCTCAGCGTC GACAAGTGCG TCAGCCTCAG CAAGTACTAG 3060 TGCATCAGCT TCAGCATCAA CGAGTGCATC GGCTTCGGCG TCAACCAGTG CATCAGAGTC 3120 AGCAAGTACC AGTGCGTCAg CTTCCGCATC AACAAGTGCC TCGGCTTCAG CAAGCACCAG 3180 TGCGTCGGCT TCAGCAAGTA CTAGCGCCTC AGCCTCAGCC TCAACCAGTG CGTCAGCCTC 3240 AGCAAGTATC TCAGCGTCTG AATCGGCATC AACGAGTGCG TCCGCTTCAG CAAGTACTAG 3300 CGCCTCAGCC TCAGCGTCAA CAAGTGCATC GGCTTCAGCG TCAACGAGTG CGTCTGAATC 3360 GGCATCAACG AGTGCGTCCG CTTCAGCAAG TACTAGCGCC TCAGCCTCAG CGTCAACAAG 3420 TGCATCGGCT TCAGCATCAA CGAGTGCGTC CGCTTCAGCA AGTACTAGCG CCTCAGCCTC 3480 AGCGTCAACA AGTGCATCGG CTTCAGCGTC AACGAGTGCG TCTGAGTCAG CATCAACGAG 3540

TGCGTCAGCC	TCAGCAAGCA	CATCAGCTTC	TGAATCTGCA	TCAACCAGTG	CGTCAGCCTC	3600
AGCATCGACA	AGCGCCTCAG	CTTCAGCAAG	TACCAGTGCG	TCAGCCTCAG	CGTCGACAAG	3660
TGCGTCGGCT	TCAGCAAGTA	CCAGTGCGTC	AGCCTCAGCA	AGTACCAGTG	CGTCAGCCTC	3720
AGCGTCGACA	AGTGCGTCGG	CCTCAACCAG	TGCATCTGAA	TCGGCATCAA	CCAGTGCGTC	3780
AGCCTCAGCA	AGTACTAGTG	CATCAGCTTC	AGCATCAACG	AGTGCATCGG	CTTCAGCATC	3840
AACCAGTGCA	TCAGAGTCAG	CAAGTACCAG	TGCGTCAGCT	TCCGCATCAA	CAAGTGCCTC	3900
GGCTTCAGCA	AGTACTAGCG	CCTCAGCCTC	AGCGTCAACA	AGTGCTTCAG	CTTCCGCGTC	3960
AACCAGCGCC	TCGGCCTCAG	CAAGTATCTC	AGCGTCTGAA	TCGGCATCAA	CAAGTGCCTC	4020
GGCTTCAGCA	TCAACGAGTG	CATCAGTCTC	AGCAAGCACC	AGTGCGTCGG	CCTCAGCAAG	4080
CACCAGCGCG	TCTGAATCCG	CATCAACCAG	TGCCTCAGCT	TCAGCAAGTA	CCTCAGCATC	4140
TGAATCAGCA	TCAACAAGTG	CCTCGGCTTC	AGCAAGCACA	AGTGCTTCAG	CCTCAGCAAG	4200
TATCTCAGCG	TCTGAATCGG	CATCAACGAG	TGCGTCCGCT	TCAGCAAGTA	CTAGCGCCTC	4260
AGCATCAGCG	TCAACAAGTG	CTTCGGCTTC	AGCGTCAACG	AGTGCGTCTG	AGTCAGCATC	4320
AACGAGTACG	TCAGCCTCAG	CAAGCACATC	AGCTTCTGAA	TCTGCATCAA	CCAGTGCGTC	4380
AGCCTCAGCA	TCGACAAGCG	CCTCAGCTTC	AGCAAGTACC	AGTGCGTCAG	CCTCAGCAAG	4440
TACCAGTGCT	TCAGCCTCAG	CGTCGACAAG	TGCGTCGGCC	TCAACCAGTG	CATCTGAATC	4500
GGCATCAACC	AGTGCGTCAG	CCTCAGCAAG	TACTAGCGCC	TCAGCCTCAG	CATCAACGAG	4560
TGCGTCCGCT	TCAGCAAGTA	CTAGTGCATC	AGCTTCAGCA	AGTACTAGCG	CCTCAGCCTC	4620
AGCGTCGACA	AGCGCCTCAG	CTTCAGCAAG	TACCAGTGCG	TCAGCCTCAG	CGTCGACAAG	4680
TGCGTCGGCT	TCAGCAAGTA	CCTCAGCGTC	TGAATCAGCA	TCAACAAGTG	CGTCGGCTTC	4740
AGCATCAACG	AGTGCATCAG	CTTCAGCATC	AACAAGTGCT	TCAGCTTCAG	CAAGTACCAG	4800
TGCGTCGGCT	TCAGCATCAA	CGAGTGCTTC	AGTCTCAGCG	TCAACCAGTG	CCTCTGAATC	4860
CGCATCAACA	AGTGCCTCGG	CTTCAGCAAG	CACCAGTGCT	TCGGCTTCAG	CGTCAACGAG	4920
TGCGTCTGAG	TCAGCATCAA	CGAGTGCGTC	AGCCTCAGCA	AGCACATCAG	CTTCTGAATC	4980
TGCATCAACC	AGTGCGTCAG	CTTCCGCATC	AACAAGCGCC	TCGGCCTCAG	CAAGTACAAG	5040
TGCTTCAGCC	TCAGCATCAA	CCAGTGCATC	AGCTTCAGCC	TCAACAAGTG	CTTCAGCCTC	5100
AGCGTCAACC	AGTGCCTCGG	CTTCAGCAAG	TACCAGTGCG	TCAGCTTCAG	CAAGCACAAG	5160
TGCGTCAGCT	TCAGCATCAA	CCAGTGCTTC	GGCTTCGGCA	TCAACAAGTG	CCTCAGCATC	5220
AGCATCAACG	AGTGCGTCAG	CCTCAGCAAG	TACTAGTGCA	TCAGCATCAG	CATCAACCAG	5280

578 TGCATCAGCC TCAGCAAGTA TCTCAGCGTC TGAATCGGCA TCAACGAGTG CATCAGCATC 5340 AGCATCAACG AGTGCATCGG CTTCAGCGTC AACCAGTGCA TCAGTCTCAG CAAGCACCAG 5400 TGCGTCGGCT TCAGCATCAA CGAGTGCCTC AGCCTCAGCA AGTATCTCAG CGTCTGAATC 5460 GGCATCAACG AGTGCGTCAG CCTCAGCAAG TACTAGTGCA TCGGCTTCAG CAAGCACCAG 5520 TGCGTCGGCT TCAGCATCAA CCAGTGCCTC AGCCTCAGCA AGTATCTCAG CGTCTGAATC 5580 GGCATCAACG AGTGCGTCAG CCTCAGCAAG TACTAGTGCA TCAGCmTCAG CATCAACGAG 5640 TGCATCGGCT TCAGCAAGTA CCAGCGCCTC AGCTTCAGCA AGCACCAGTG CGTCAGCCTC 5700 AGCAAGTACC AGCGCCTCAG CCTCAGCAAG CACCAGTGCC TCAGCTTCAG CAAGTACCAG 5760 TGCGTCAGCT CAGCATCAAC AAGTGCTTCA GCTTCGGCCT CAACAAGTGC GTCAGCTTCA 5820 GCATCAACGA GTGCGTCGGC TTCAGCAAGC ACCAGTGCCT CGGCCTCAGC AAGCACCAGT 5880 GCTTCAGCTT CAGCATCAAC AAGTGCGTCA GCTTCAGCAA GTACATCAGT TTCAAATTCA 5940 GCAAACCATT CGAACTCACA AGTTGGAAAT ACTTCTGGAT CGACAGGTAA ATCCCAAAAA 6000 GAATTGCCTA ATACAGGTAC TGAGTCGTCA ATTGGATCTG TGTTACTTGG AGTTCTAGCA 6060 GCTGTTACAG GTATTGGATT GGTTGCGAAA CGCCGTAAAC GTGATGAAGA AGAGTAAGAC 6120 AACCTGTAAA GTTAGGCTAA ACTAACTCGC GCACATAAAT CAAGGAGAAA ATTGCTAGTG 6180 GATGATAAAA TAACAGTCAT TGTACCAGTA TACAATGTGG AAAACTATCT GAGGAAGTGC 6240 CTAGATAGTA TTATTACTCA AACATATAAA AATATTGAGA TTGTTGTCGT TAATGATGGT 6300 TCTACGGATG CTTCAGGTGA AATTTGTAAA GAATTTTCAG AAATGGATCA CCGAATTCTC 6360 TATATAGAAC AAGAAAATGC TGGTCTTTCT GCCGCACGAA ACACCGGTCT GAATAATATG 6420 TCCGGAAATT ATGTGACCTT TGTGGACTCG GATGATTGGA TTGAGCAAGA TTATGTAGAA 6480 ACTCTATATA AAAAAATAGT AGAGTATCAG GCTGATATTG CAGTTGGTAA TTATTATTCT 6540 TTCAACGAAA GTGAAGGAAT GTTCTACTTT CATATATTGG GAGACTCCTA TTATGAGAAA 6600 GTATATGATA ATGTTTCTAT CTTTGAGAAC TTGTATGAAA CTCAAGAAAT GAAGAGTTTT 6660 GCTTTGATAT CTGCTTGGGG TAAACTCTAT AAGGCAAGAT TGTTTGAGCA GTTGCGCTTT 6720 GACATAGGTA AATTAGGAGA AGATGGTTAC CTCAATCAAA AGGTATATTT ATTATCAGAA 6780 AAGGTAATTT ATTTAAATAA AAGTCTTTAT GCTTATCGGA TTAGAAAAGG TAGTTTATCA 6840 AGAGTTTGGA CAGAAAAGTG GATGCACGCT TTAGTTGATG CTATGTCTGA ACGTATTACG 6900 CTACTAGCTA ATATGGGTTA TCCTCTAGAG AAACACTTGG CAGTTTATCG TCAGATGTTG 6960 GAAGTCAGTC TCGCCAACGG TCAAGCTAGT GGTTTATCTG ACACAGCAAC GTATAAAGAG 7020 TTTGAAATGA AACAAAGGCT TTTAAATCAG CTATCGAGAC AAGAGGAAAG TGAAAAGAAA 7080

GCCATTGTCC	TCGCAGCAAA	CTATGGCTAT	GTAGACCAAG	TTTTAACGAC	AATCAAGTCT	7140
ATTTGTTATC	ATAATCGTTC	GATTCGTTTT	TATCTGATTC	ATAGCGATTT	TCCAAATGAA	7200
TGGATTAAGC	AATTAAATAA	GCGCTTAGAG	AAGTTTGACT	CAGAAATTAT	TAATTGTCGG	7260
GTAACTTCTG	AGCAAATTTC	ATGTTATAAA	TCGGATATTA	GTTACACAGT	CTTTTTACGC	7320
TATTTCATAG	CTGATTTCGT	GCAAGAAGAC	AAGGCCCTCT	ACTTGGACTG	TGATCTAGTT	7380
GTAACGAAAA	ATCTGGATGA	CTTGTTTGCT	ACAGACTTAC	AAGATTATCC	TTTGGCTGCT	7440
GTTAGAGATT	TTGGGGGCAG	AGCTTATTTT	GGTCAAGAAA	TCTTTAATGC	CGGTGTTCTC	7500
TTGGTAAACA	ATGCTTTTTG	GAAAAAAGAG	AATATGACCC	AAAAATTAAT	TGATGTAACC	7560
AATGAATGGC	ATGATAAGGT	GGATCAGGCA	GATCAGAGCA	TCTTGAATAT	GCTTTTTGAA	7620
CATAAATGGT	TGGAATTGGA	CTTTGATTAT	AATCATATTG	TCATTCATAA	ACAGTTTGCT	7680
GATTATCAAT	TGCCTGAGGG	TCAGGATTAT	CCTGCTATTA	TTCACTATCT	TTCTCATCGG	7740
AAACCGTGGA	AAGATTTGGC	GGCCCAAACC	TATCGTGAAG	TTTGGTGGTA	CTATCATGGG	7800
CTTGAATGGA	CAGAATTGGG	ACAAAACCAT	CATTTACATC	CATTACAAAG	ATCTCACATC	7860
TATCCAATAA	AGGAACCTTT	CACTTGTCTA	ATCTATACTG	CCTCAGACCA	TATTGAACAA	7920
ATTGAGACAT	TGGTTCAATC	CTTGCCTGAT	ATTCAGTTTA	AGATAGCAGC	TAGAGTAATA	7980
GTTAGTGATC	GATTGGCTCA	GATGACAATT	TATCCAAACG	TGACTATATT	TAACGGAATT	8040
CACTATTTGG	TAGATGTCGA	TAATGAATTG	GTAGAAACCA	GTCAAGTACT	TTTAGATATT	8100
AATCATGGCG	AAAAGACAGA	AGAAATTCTC	GATCAATTTG	CTAATCTTGG	CAAGCCTATC	8160
TTATCCTTTG	AAAATACTAA	AACCTATGAA	GTAGGTCAGG	AGGCATATGC	TGTTGACCAA	8220
GTTCAAGCAA	TGATTGAAAA	ATTGAGAGAA	ATAAGCAAAT	GAAGAAAAAT	CATTTAGTAG	8280
GAGATGCTCT	GATTTTGACG	GTTAGTGATC	AGATTGAAGA	GTTGGATTAT	ТТТТТАТААА	8340
ATTTCTCCGT	TCATCATATA	TGAAAGTTGT	TCAAACATCA	GAGTGCTTTA	ТААААТАТАА	8400
ATAGACCTAA	AGATATTTAA	TATGAACTGC	ACCCCAAAAG	TTAGACAGAA	AAAATCTAAC	8460
TTTTTGGsGT	CAGTACAATA	TTAGGGTGTG	ATTAATTATC	TTTTTAGGTG	AAAATGATTC	8520
TATATTATAG	CTGTTTGATA	CGAAATTTAT	TATAAGGAAA	TTATGTTAAT	GAATACAAAA	8580
TCTATAGTTT	TTAATGCAGA	TAATGATTAT	GTAGATAAAT	TAGAAACTGC	ААТТАААТСТ	8640
ATTTGTTGTT	ATAATAATTG	TTTAAAATTT	TATGTATTTA	ATGATGATAT	TGCGTCAGAG	8700
TGGTTTTTGA	TGATGAATAA	GCGATTGAAG	АСТАТАСААТ	CTGAAATCGT	TAATGTAAAG	8760
ATTGTAGATC	ATGTTCTTAA	AAAGTTTCAT	TTACCGTTAA	AGAATTTAAG	TTATGCCACT	8820

580 TTCTTTCGTT ATTTTATACC TAATTTTGTC AAAGAAAGTC GTGCTTTATA CCTAGATTCT 8880 GACATCATTG TTACAGGAAG TTTAGACTAT TTATTTGATA TAGAACTAGA TGGTTATGCC 8940 TTGGCAGCAG TAGAAGATTC TTTTGGTGAT GTTCCTTCTA CCAATTTTAA CTCCGGAATG 9000 TTATTAGTTA ATGTAGATAC TTGGAGAGAT GAAGATGCTT GTTCGAAACT GTTAGAACTG 9060 ACCAATCAAT ATCATGAAAC AGCATATGGA GATCAAGGAA TTTTAAATAT GTTATTCCAT 9120 GATAGATGGA AAAGATTAGA CCGAAATTTT AATTTTATGG TGGGGATGGA TAGCGTCGCA 9180 CACATAGAAG GAAATCATAA ATGGTATGAG ATTTCTGAGT TGAAAAATGG AGATTTACCT 9240 AGTGTTATAC ATTATACTGG GGTAAAACCT TGGGAAATAA TTTCCAATAA TCGCTTTAGA 9300 GAAGTTTGGT GGTTTTATAA TCTGTTAGAA TGGTCTGATA TTTTATTGAG AAAAGACATT 9360 ATTAGTCGTA GTTTCGAAGA ACTTGTATAC AGTCCTAAAG CTCATACAGC AATTTTTACA 9420 GCTAGTTGTG AGATGGAGCA TGTAGAATAT TTGATAGAAA ATTTACCAGA GGTACATTTT 9480 TCTATACTAG CACATACATA TTTTGCGTCT AGTGTCGTTG CTTTATTAAG ATATAGCAAT 9540 GTTACGATTT ATCCTTGTTT TTCTCCATTT GATTATCGAA AAATTTTGGA TAATTTAGAT 9600 TTTTATTTAG ATATTAATCA TTATAAAGAA GTGGATAATA TTGTATCCGT TGTTCAACAA 9660 CTATCTAAAC CAATTTTTAC CTTTGAAAAT ACTAGTCATG ATATAGGCAA TCAAACTAAT 9720 ATATTTTCTT CAACCGAACC AAACAAAATG GTAGAGGCTA TTAGACAATT TATAGGAGAA 9780 TAAGTTTATG GCAGACGAAC TAATTAGTAT TGTAGTTCCA ATCTACAACG TTGAGAATTA 9840 TTTGCGAATG TGTTTGGATA GCATTCAGAA TCAGACGTAT CAAAATTTTG AGTGTTTATT 9900 AATCAATGAT GGCTCTCCAG ATCATTCATC CAAAATATGT GAAGAATTTG TAGAGAAAGA 9960 TTCTCGTTTC AAATATTTTG AGAAAGCAAA CGGCGGTCTT TCATCAGCTC GTAACCTAGG 10020 TATTGAATGT TCGGGGGGG GCGTACATTA CTTTTGTAGA CTCTGATGAT TGGTTGGAAC 10080 ATGATGCTTT AGACCGATTA TATGGTGCTT TGAAAAAGGA AAACGCAGAT ATTAGTATCG 10140 GGCGTTATAA TTCTTATGAT GAAACACGCT ATGTGTATAT GACTTATGTT ACGGATCCAG 10200 ATGATTCTCT AGAAGTGATA GAAGGTAAAG CAATTATGGA TAGGGAAGGT GTCGAAGAAG 10260 TCAGAAATGG GAACTGGACT GTAGCTGTCT TGAAGTTATT CAAGAGAGAG TTACTACAAG 10320 ATTTACCATT TCCTATAGGA AAAATTGCAG AGGATACTTA CTGGACATGG AAGGTACTTC 10380 TAAGAGCTTC GAGGATAGTC TATTTGAATC GTTGTGTTTA CTGGTACCGT GTTGGTTTAT 10440 CTGATACTTT ATCGAATACA TGGAGTGAAA AGCGTATGTA TGATGAAATT GGGGCTAGGG 10500 AAGAAAAGAT AGCTATTTTA GCAAGTTCAG ACTATGACTT GACCAATCAT ATTTTGATTT 10560 ATAAAAATAG ATTACAAAGA GTGATAGCAA AATTAGAAGA ACAAAATATG CAGTTCACAG 10620

AGATTTACAG	AAGAATGATG	GAAAAATTGT	CTTTACTTCC	GTAGATAGTA	ATAAAAAATG	10680
AGATAGCGTA	ATATGAAACT	ACATTTAACA	AATTTATACG	GCATGGCTGG	TGATAGTACG	10740
GTTATCTTAG	CTCAAAATGC	TGTTCAAAAG	ATAGCTAGTC	AACTGGGATT	TAGAGAGGTT	10800
GGTATTTATT	TTTACAACAT	TGCTTCAGAT	AGTCCTTCTG	AAATGAATAA	GCGTCTGGAT	10860
GGTATTATGG	CCAGTATCTC	TATTGGGGAT	ATTTTAGTCT	TTCAGTCTCC	AACCTGGAAT	10920
GGTTTTGAAT	TTGATCGTCT	CTTGTTTGAT	AAGCTAAAGG	ATATGCAGGT	GAAAATTATT	10980
TGCTTTATCC	ATGATGTTGT	TCCCCTCATG	TTTGATAGTA	ACTATTATCT	CATGAAAGAT	11040
TATCTGTATA	TGTATAATCT	ATCAGATGTT	TTGATAGTGC	CGTCAGAGAG	AATGAAAACA	11100
CGCCTGATGG	AAGAAGGATT	GACGACTAAG	AAGATTCTTG	TTCAAGGGAT	GTGGGATCAT	11160
CCTCATGATT	TATCCTTATA	CACCCCTGCT	TTTAAAAAAG	AACTTTTTTT	TGCTGGAAGT	11220
TTAGAGCGTT	TTCCAGACTT	ACAAAATTGG	TCTCAAGATA	CGCCTTTGAG	AGTATTTTCA	11280
AATAAAGGGG	AAGCTAGTTC	TAGTGCTAGA	AGTCTCAGCA	TCGAAGGATG	GAAAAAGAT	11340
GAGGAATTGT	TGCTAGAATT	ATCAAAGGGT	GGATTTGGCC	TTGTCTGGGG	AACCCATCAA	11400
AATGAGGGAG	AAAGTAACCA	ATACTATACC	TTGAATATAT	CTCATAAGGT	GAGTACCTAT	11460
CTAACAGCGG	GCATTCCAGT	CATTGTACCA	AGTAGCTTGT	CAACTGCTAA	ATTTATAGTA	11520
GATCAAGGCT	TGGGCTTTAT	GGCGGATAGT	CTGGAAGAGG	TTCATGAGAT	AGTTGATAAA	11580
ATGAATCTAC	AAGAATATCA	AGAAATGACG	AATCGTATCA	AGACCTTTAG	CTATTTGTTA	11640
AAAGAGGGCT	ATTTCACTAA	AAAGTTATTG	GTAGATGCAA	TCTATCACTT	GGGAATTGAT	11700
TAAGGGAATG	AAATGAACAA	AACAATTGTA	CTAGCAGGGG	ATCGCAATTA	CACCAGGCAG	11760
TTAGAAACAA	CGATAAAATC	TATTTTATAC	CACAATCGAG	ATGTTAAGAT	TTATATTTTG	11820
AATCAAGATA	TCATGCCAGA	TTGGTTTCGC	AAACCACGAA	AAATAGCTCG	CATGTTAGGT	11880
AGTGAGATTA	TCGATGTTAA	ACTACCTGAA	CAAACTGTGT	TTCAAGATTG	GGAAAAGCAA	11940
GATCACATTA	GTAGCATTAC	TTATGCTAGA	TATTTTATTG	CAGATTATAT	CCAAGAAGAT	12000
AAGGTTTTAT	ATTTAGACAG	TGATTTGATT	GTAAATACTT	CTTTAGAGAA	ATTATTTAGT	12060
ATTTGTTTAG	AAGAAAAATC	ACTCGCAGCA	GTTAAAGATA	CAGATGGAAT	TACATTTAAT	12120
GCAGGTGTTT	TATTAATCAA	СААТАААААА	TGGCGTCAAG	AGAAATTAAA	AGAACGACTA	12180
ATTGAACAGA	GCATTGTTAC	AATGAAGGAA	GTTGAAGAAG	GCCGTTTCGA	GCATTTTAAT	12240
GGTGATCAAA	CGATTTTTAA	TCAGGTCTTG	CAAGATGATT	GGTTAGAACT	AGGTCGAGCT	12300
TATAATTTAC	AAGTAGGGCA	TGATATTGTG	GCTTTGTATA	ACAATTGGCA	GGAACATCTG	12360

			582			
GCTTTTAATG	ATAAACCAGT	GGTGATTCAT	202	ACAGAAAACC	CTGGACTACC	12420
TTGACAGCCA	ATCGTTATCG	TGATTTATGG	TGGGAATTCC	ATGATTTGGA	GTGGAGTCAG	12480
ATTTTACAAC	ACCATATGGG	AGAATTTGAA	CTAATATCGC	CTCTAGATAA	GGAATTTTCT	12540
TGCTTAACCT	TAACGAATTC	CCAAGATTTA	GAAGGAATAG	AAGAGCTAGT	TACAGCTCTA	12600
CCTGAGGTGG	TATTTCATAT	CGCAGCTTGG	ACGGATATGG	GAGATAAATT	ААААААТТА	12660
GCTGTATATA	ATAATGTGAG	ATTGCATCCA	CAAATTGTTC	CACCGGTCTT	AGATAAGCTG	12720
AAAAAGTCAA	CAAATCTATA	TTTGGATATC	AATCATGGTA	GTGCAGATGA	GAACTTTTTA	12780
AAATCTTTGC	AAGAACAAGA	AAAAACGCTA	CTAGCTTTTC	AATCGACTCA	GCACGGAGAG	12840
TTAGGACAAA	TCGTTTTCGA	AAATGGGAAA	GTTTCCTTTA	TGATTGATAC	GATTAAAGAT	12900
TTTAAGAAAA	ACGGACATCT	TACCTGTTTT	CGACAACTTC	CAAGTTTAAC	TTGTTTAACG	12960
TTTACGGCTT	CTCAGTATAT	CGAACAATTG	GATTACTTGG	CTGGACAGTT	GCCAAATGTT	13020
GTTTTTCAAA	TTGCTGCTTG	GACAGCTATG	GGGCCAAAAT	TATATGATTT	GTCTAATCGT	13080
TATCCTAATA	TTCAGCTCTA	TCCGGCAATT	TCTAGAGATA	AGCTAGACGA	GTTGAAGGAG	13140
AAGATGGATG	CTTATTTAGA	TATCAACCTA	CTGACTTCAA	CATCCGATAT	CGTTGCAGAA	13200
ATGGCTCATC	TATCTAAACC	TATACTAGCC	TTTTTATAAAT	CTCAAAATGG	GAATAATGGC	13260
CAAAGGTTGT	ATTCAAGTGA	ACATCCTGAA	CGAATGTTGG	CTGATTTGCA	AAAATTGATA	13320
ACTAAGGATA	TGCTAGAAAA	ACCGCTTGAT	ATAATCCAGG	TGAAAGGGAT	AGATGAAACC	13380
TTGGATTATA	TTATTGAACA	CAACTCTTCT	TTAGTTCGTT	TTGGAGATGG	GGAAATCAAT	13440
ATGCTTGCAG	GGCATTCAAT	TCCCTACCAG	GATTATGATG	AAGAGTTGGT	TTCAATCATG	13500
AGGGACATTA	TCGGCCAAGA	AAGTCGAGAA	GATTTAGTAG	TGTGCCTTCC	TGATGCTTTT	13560
ACAGATCGTT	TTAGGTTTAC	ATCGTGGGCG	ATTCCATTTT	GGAAAGATCA	CATGGATCAT	13620
TATATGGATT	TTTACAGAGA	GTTATGCAGT	GATTCATGGT	ATGGCTCAAC	CTTTGTATCT	13680
CGCCCTTATA	TCGATTTTGA	AGACAAGAGT	CAAGCTAAAG	CTCAATTTGA	AAAATTGAAA	13740
AGCATTTGGG	AAAACCGTGA	CTTACTGATA	GTCGAAGGTG	CGACTTCTCG	TTCAGGTGTC	13800
GGAAATGATT	TATTCGATGA	GGCAAATTCT	ATTAAGCGAA	TTATCTGTCC	TTCTCATAGT	13860
GCCTTTTCTA	GAGTTCATGA	ACTTGAACAA	GAAATTGAAA	AGTATGCTGG	TGGTCGCTTG	13920
ATTTTATGTA	TGCTTGGACC	TACAGCAAAA	GTTCTGAGTT	ATAATCTATG	CCAGATGGGC	13980
TATCAAGTTT	TGGATGTAGG	CCATATTGAC	TCAGAGTATG	AATGGATGAA	AATGGGAGCT	14040
AAAACTAAGG	TTAAATTTTC	TCATAAACAT	ACTGCAGAAC	ATAATTTCGA	CCAAGATATT	14100
GAATTTATTG	ATGATGAAAC	CTATAACAGT	CAGATTGTTG	CACGAATATT	AAACTAGACT	14160

АТТТААААТА	AATGATAAGG	ATTTAAAATG	AGAAATACCA	AACGCGCTGT	AGTATTTGCA	14220
GGTGATTACG	CTTATATTCG	ACAAATCGAA	ACGGCGATGA	AGTCACTCTG	TAGACACAAT	14280
AGTCATTTGA	AAATTTATCT	GCTAAATCAG	GACATTCCTC	AGGAATGGTT	TAGTCAAATA	14340
AGAATATATT	TACAAGAGAT	GGGGGGCGAC	TTGATTGACT	GCAAGTTAAT	TGGCTCACAG	14400
TTTCAAATGA	ATTGGTCTAA	TAAATTACCT	CATATCAATC	ATATGACATT	TGCACGCTAT	14460
TTTATTCCAG	ATTTTGTAAC	AGAAGATAAA	GTTCTCTATC	TAGATAGTGA	TTTGATTGTG	14520
ACTGGTGATT	TGACCGATTT	GTTTGAATTA	GACTTAGGTG	AAAATTATTT	GGCAGCAGCT	14580
CGTTCTTGCT	TTGGAGCAGG	AGTCGGCTTC	AATGCTGGTG	TTCTCTTGAT	TAACAACAAA	14640
AAATGGGGAT	CTGAAACTAT	TCGACAAAAA	TTGATTGACT	TAACAGAAAA	AGAACATGAG	14700
AATGTGGAAG	AAGGAGACCA	GTCAATTTTG	AATATGTTGT	TTAAAGATCA	ATATAGTTCC	14760
CTTGAAGATC	AATATAATTT	TCAAATAGGA	TATGATTATG	GGGCGGCAAC	CTTTAAACAT	14820
CAATTCATTT	TTGATATTCC	GCTCGAACCA	CTGCCACTAA	TTTTACACTA	TATTTCTCAG	14880
GATAAGCCTT	GGAATCAATT	TTCTGTTGGA	CGTCTAAGAG	AAGTTTGGTG	GGAATACTCT	14940
TTGATGGATT	GGTCTGTTAT	TTTAAATGAA	TGGTTTTCAA	AGAGTGTGAA	GTACCCTAGT	15000
AAATCACAAA	TATTTAAGTT	GCAATGTGTT	AATTTAACGA	ATTCTTGGTG	TGTCGAGAAA	15060
ATCGATTATT	TGGCGGAGCA	ATTGCCAGAA	GTTCATTTTC	ATATTGTTGC	TTATACAAAT	15120
ATGGCAAATG	AACTACTAGC	TTTAACGCGT	TTTCCTAATG	TTACCGTATA	TCCAAATTCC	15180
TTACCAATGT	TATTGGAACA	AATAGTAATA	GCTTCAGATT	TGTATTTGGA	TTTGAATCAT	15240
GATCGAAAAT	TAGAAGATGC	ATATGAGTTT	GTGCTTAAGT	ACAAAAAACC	AATGATAGCT	15300
TTCGACAATA	CTTGCTCTGA	AAATCTTTCT	GAGATTTCAT	ATGAAGGTAT	CTATCCAAGC	15360
TCCATTCCGA	AAAAAATGGT	TGCAGCAATC	AGATCTTACA	TGAGGTAGAG	AACAGTATGA	15420
GAAAATCAAT	AGTATTAGCG	GCAGATAATG	CCTATCTTAT	TCCTTTAGAG	ACGACTATAA	15480
AGTCTGTATT	GTATCACAAT	AGAGATGTTG	ATTTTTATAT	TCTCAACAGT	GATATAGCTC	15540
CTGAATGGTT	TAAATTATTG	GGGAGAAAA	TGGAAGTTGT	GAATTCTACA	ATTCGCAGTG	15600
TACACATTGA	TAAAGAACTT	TTTGAAAGCT	ATAAAACAGG	ACCTCATATA	AATTATGCTT	15660
CTTACTTTAG	ATTTTTTGCG	ACAGAAGTGG	TTGAATCTGA	TAGGGTATTG	TATCTGGATT	15720
CCGATATCAT	TGTAACTGGG	GAACTAGCTA	CTTTGTTTGA	GATAGATCTC	AAAGGATATT	15780
CAATTGGTGC	TGTTGATGAT	GTCTATGCCT	ATGAAGGACG	AAAATCTGGA	TTTAATACTG	15840
GTATGTTACT	AATGGATGTT	GCAAAGTGGA	AAGAACATTC	ТАТТСТСААТ	AGTTTATTGG	15900

584

AATTAGCGGC CGAGCAGAAT CAAGTTGTTC ATCTTGGGGA TCAGAGTATT TTAAATATTT 15960 ATTTTGAGGA TAATTGGCTA GCCTTAGATA AAACATATAA TTATATGGTG GGTATTGATA 16020 TTTATCACCT TGCTCAAGAA TGTGAACGTC TAGATGACAA TCCACCTACA ATTGTTCACT 16080 ATGCTAGTCA TGATAAACCT TGGAATACAT ATAGTATATC TAGACTACGT GAATTATGGT 16140 GGGTTTATAG AGATTTGGAT TGGTCAGAGA TTGCTTTTCA ACGTTCCGAT TTAAATTATT 16200 TTGAAAGAAG CAATCAGTCT AAAAAACAAG TGATGCTTGT GACATGGAGT GCAGATATAA 16260 AACATTTAGA GTATTTAGTA CAACGGTTAC CTGATTGGCA TTTTCATTTG GCTGCACCGT 16320 GTGATTGTTC TGAGGAGCTG ACCTCTCTAT CACAGTATAC GAATGTAACA GTATATCAAA 16380 ATGTATTACA TAGTAGAATT GATTGGCTAT TGGACGATTC TATAGTTTAT TTAGATATTA 16440 ATACAGGTGG AGAGGTTTTT AATGTAGTTA CAAGGGCACA AGAAAGTGGC AAGAAAATCT 16500 TCGCTTTTGA TATCACACGT AAAAGTATGG ATGATGGACT CTATGACGGT ATTTTTTCTG 16560 TGGAGAGACC AGATGATTTA GTGGATAGAA TGAAGAATAT AGAGATAGAG TAATGAGTGA 16620 ATTAATTAGT GTTGTGGTAC CGATATACAA TACGGGAAAA TATTTAGTGG AGTGTGTCGA 16680 GCATATTCTG AAGCAAACCT ATCAAAATAT AGAAATTATT TTAGTTGATG ACGGTTCTAC 16740 GGATAATTCT GGGGAAATTT GTGATGCTTT TATGATGCAA GATAATCGTG TGCGAGTATT 16800 GCATCAAGAA AATAAGGGGG GGGCAGCACA AGCTAAAAAT ATGGGGATTA GTGTAGCTAA 16860 GGGAGAGTAC ATCACGATTG TTGATTCAGA TGATATCGTA AAAGAAAATA TGATTGAAAC 16920 TCTTTATCAG CAAGTCCAAG AAAAGGATGC AGATGTTGTT ATAGGGAATT ACTATAATTA 16980 TGACGAAAGT GACGGGAATT TTTATTTTTA TGTAACAGGG CAAGATTTTT GCGTCGAAGA 17040 ATTAGCTATA CAAGAAATTA TGAACCGTCA AGCAGGAGAT TGGAAATTCA ATAGCTCGGC 17100 CTTTATATTG CCGACATTTA AGTTGATTAA AAAAGAATTA TTCAATGAAG TTCACTTTTC 17160 AAATGGTCGC CGCTTTGATG ATGAAGCAAC TATGCATCGC TTTTATCTTT TAGCCTCTAA 17220 AATCGTCTTT ATAAACGATA ATCTCTATCT GTATAGAAGA CGTTCAGGAA GCATCATGAG 17280 AACGGAATTT GATCTTTCCT GGGCAAGAGA TATTGTTGAA GTGTTTTCTA AGAAAATATC 17340 GGATTGTGTC TTGGCTGGTT TGGATGTCTC CGTTCTGCGT ATTCGATTTG TCAATCTTTT 17400 AAAAGATTAT AAGCAAACTT TAGAATACCA TCAATTAACA GATACTGAGG AATATAAAGA 17460 TATTTGTTTC AGATTAAAGT TGTTTTTTGA TGCAGAACAA AGAAATGGTA AAAGTTGAAA 17520 TAAAAGAATT GTTATTTACC ATATCACAAA CAATGAAGGT GAGGGGAGTG TTTTATGACT 17580 AAGATTTATT CGTCAATAGC AGTAAAAAAA GGACTATTTA CCTCATTTCT ACTGTTTATC 17640 TATGTATTGG GAAGTCGTAT TATTCTCCCT TTTGTTGACC TAAATACTAA AGATTTTTTA 17700

GGAGGTTCAA	CAGCCTATCT	AGCCTTCTCA	GCCGCCCTAA	CAGGTGGGAA	TCTAAGAAGT	17760
TTATCAATTT	TTTCTGTTGG	ATTATCCCCT	TGGATGTCCG	CCATGATTTT	ATGGCAGATG	17820
TTTTCTTTTT	CTAAACGGTT	GGGTTTAACA	TCTACGTCTA	TAGAAATACA	AGATCGCCGT	17880
AAAATGTACC	TGACCTTGCT	AATTGCTGTG	ATTCAATCCT	TGGCAGTTAG	CTTGAGACTG	17940
CCAGTACAAT	CCTCCTATTC	TGCAATATTG	GTTGTTCTAA	TGAATACAAT	ATTGCTGATA	18000
GCAGGAACAT	TTTTTCTTGT	TTGGTTGTCA	GATTTAAATG	CGAGTATGGG	GATTGGAGGT	18060
TCTATTGTAA	TCCTCCTATC	CAGTATGGTT	TTAAATATTC	CTCAGGATGT	TTTGGAAACA	18120
TTTCAGACAG	TACACATTCC	AACAGGGATT	ATTGTGTTAC	TTGCTTTATT	AACCCTTGTC	18180
TTTTCTTATT	TACTTGCCCT	TATGTATCGA	GCTCGCTATT	TGGTTCCTGT	ТААТАААТТ	18240
GGCTTACACA	ATCGATTTAA	ACGCTATTCT	TATCTCGAAA	TCATGTTGAA	TCCTGCAGGT	18300
GGGATGCCTT	ATATGTATGT	GATGAGTTTT	CTTAGTGTAC	CAGCTTATTT	GTTCATCTTG	18360
TTGGGATTTA	TTTTCCCTAA	TCATTCAGGG	TTAGCGGCTT	TATCAAAGGA	ATTTATGGTT	18420
GGAAAGCCTT	TGTGGGTCTA	TGTTTATATT	TCGGTCTTAT	TTTTATTTAG	TATCATTTTT	18480
GCTTTTGTTA	CGATGAATGG	AGAAGAGATT	GCAGACCGTA	TGAAAAAATC	TGGAGAATAC	18540
ATTTATGGTA	TTTATCCAGG	TGCGGATACT	AGTCGATTTA	TTAATCGATT	GGTCCTTCGT	18600
TTCTCAGTCA	TAGGTGGTCT	CTTTAATGTG	ATTATGGCAG	GTGGTCCCAT	GCTTTTTGTT	18660
TTGTTTGATG	AAAAGTTATT	ACGATTGGCA	ATGATTCCAG	GCTTATTTAT	GATGTTCGGG	18720
GGCATGATTT	TTACGATTAG	AGACGAGGTC	AAGGCTTTAA	GGCTAAATGA	GACCTATAGA	18780
CCTTTGATTT	AGGAGACTTT	TATGTATTAT	TTTATTCCAG	CTTGGTATGG	GTCAGAAAGA	18840
ACATGGCATG	CAGATATCAC	TCCATGGTAT	TTTTCTCATT	TTCGTCTAGA	GTTTGATGAT	18900
ACCTTTCACC	AGATTCGGCT	CTTTCAAGAG	CAAGATATAG	ATTCTCGTCT	ATTAGTATTA	18960
GCTTACCAGC	CTCATCTACG	TTATTTTTTA	TATAGACATG	GTGTGTTAGA	AATGGATACT	19020
TATTCCGTTT	TTGATGTTAT	GCAAGATTTT	CATAATCTCC	ATACCCAAGT	TTTAAGCATT	19080
AGAGATATTG	AGTGGGATGA	TGACTGTGAA	TTTATTTATA	GTCCCTTTAC	GATTATCGTT	19140
CAAAAAAATG	GGAAGAAATT	TGCTAAGGTT	GAACATGGAG	TTGAAGGCTT	CATCAGTGAT	19200
ATACAGTATT	TTGAACCAAA	TGGTCAAATA	CATATGCACC	ATATCGTGGA	TGATCGTGGG	19260
TTTGTATCGA	GCATTATCTT	TTTTGAAGAT	GGGCAAGCAG	CCTATCAAGA	ATATCTGAAC	19320
CTCAAGGGAG	AGTGGCAATT	CAGAGAGCGT	TTAAAAGAAG	GAGGACAGGT	AGAAGTCAAT	19380
CCAATTTTGG	GTTATCGCTT	TAAAATGCTT	ACCTATCAAA	ATATGGGAGA	TCTGGTGGCA	19440

586 GAATTTTTG AGAATTATCT GCAAACGTAT GTGAAGGATC AGGATATTTT TATGCTTCCT 19500 TCTCATTCTC ATCATGACCA GTTGGTACTA GATCGTTTAC CTAGTACTAA TCCTAAACTG 19560 TTGAGTCTGT TCATTGGACG TAATCCTCAA GATACCTTTA GGGATTTAGA TGTAACTTTT 19620 GAAAAATCGG ATTTGATTTT GGTGGATAGA GAGGATAGTT TACGATTGTT GCAGGAGTTG 19680 TATCCTGAAC GAATGCATCA ATGTTATCAT TTATCATCTT TTGACACCCG ATTACGATTG 19740 GGACGAAGCC AAACTAAGAA AGAATCCATC ATTTATTTTC AACTGGATTT TGAGCAGGGG 19800 ATTGATAATC AAGCTCTGCT TCAAGTCTTG TCCTTTGTCG CTGAAAATAA GGATACTGAG 19860 GTGATTTTTG GAGCCTTTGC TGCTAGTCAG GAGCAAATGA ATGAGGTTGA AGGGATTGTT 19920 GAGTCTTTCA TCCAAGAAAA CATTCAATCC GAAAATCTGG GAAAGGCGAT TGATTATGGT 19980 GATGCAGAAA ATCCTCTGGA AGAAAATCAA CACCAGGACT TACGCTTACA GTTTGTTAAC 20040 TTGAATGATG AGTTAGATTT GATAAAAACA CTAGAATTTG TCCGTTTGAT TGTGGATTTA 20100 AATAGACATC CTCATCTCTA CACACAGATT GCTGGGATTA GTGCAGGAAT TCCTCAAATC 20160 AACCTAGTTG AAACCGTCTA TGTTGAACAT TTAAAAAATG GTTATTTGTT AGCAGATGTT 20220 ACAGAATTTT CTAAGGCTGC ACATTATTAC ACAGATAGGT TGAAGGAGTG GAATGAGTCC 20280 TTGATATATT CAATTGATAA GATTAAGGAG CACACAGGAC AACAATTTCT TGGAAAATTA 20340 GAGAAATGGA TAGAGGAGGT TAAAAATGTC AAAGGAACTT AATATTTTAC AGATAGGACT 20400 TGCCAATTGG GAAAATCACT ATGACATACC TGAAAATATG AGTTGGTATT ATTTTTACCC 20460 AAACTCATCA AAAGCCCTTC GTGAAATAAT TGAAAAAGAG GATATTAACC GTTTTCATGC 20520 AGTTTTAATA GAAGATGGTC AGTATTCCAG AGACTTATTT TCCTATGTAA AATATTTTGA 20580 ACCTTATACT TTATTTTATA ACCAGAATCT ACAAATAAAT GATAGAGAGG TTGTGGATTT 20640 TCTAAAAAAA CGATGTGCAC AAGCAATTGA TTTTTTAAGT CCCCAACAAC TAATCAATGA 20700 TTTAAGTAAA TCTCTTTTTG GCGGTGGGTA TGGTGATAAA CTCTTTCCTC CGACGATACA 20760 AGTCAATCCA AATTTTACAG GAGCTATTTC TTATCAAGGA TTGGATTATG TCAGTTTGGA 20820 AGGTGAGTTT GGGCAAGATT TTGCCCAGCT TGCCTATTGG GCTTATAATA TTATGGTGCA 20880 AAAAACACTC CCTATTGAGT TGTGGCTTGA ATATGAGAAG GAAGGCAATT GTGACTTTCG 20940 TTTAGTAATC CGTAAAATGT GGAGTGGGTC TGTTGATGAT TTCTTTGAAG AAGTAATAGT 21000 ATCTGAAAAA GACTTGGAGC AAGCACTTTT TATGGATAGT CGAGACGGAG ACTACTTTCT 21060 CTCGATATCT GTTGAAGCAA GAGGTCGTGG AACTATCAAA CTAGGTAATC TTCACCAACG 21120 ATGGAGTCGA AAACAATTTG GTAAGTTTGT ACTTGGTGGA AATATCCTAC ATGATTCCAA 21180 GCGTGATGAA ATAAACTATT TCTTCCATCC AGGTGATTTT AAACCGCCTT TGACTGTCTA 21240

TTTTGCAGGT	TATCGACCTG	CAGAAGGATT	CGAGGGTTAC	TTTATGATGA	AAACTCTTGG	21300
ATGTCCCTTC	ATTTTATTT	CTGATCCACG	TTTAGAGGGG	GGAGCTTTTT	ATCTCGGAAC	21360
GGATGAGCTA	GAGGGAAAAG	TAAAGGATAC	GATCACTCAC	TATCTTGATT	ATTTAGGCTT	21420
TGATCATAAG	GATTTGATTT	TATCAGGTCT	TTCTATGGGA	ACGTTTCCGG	CTCTCTATTA	21480
TGGTGCTTCT	TTTGAACCCC	ATGCCATCAT	AGTTGGTAAG	CCCTTGGCTA	ATTTAGGAAC	21540
TATAGCTAGT	CGTGGACGTT	TGGACGCACC	GGGTGTCTCT	AACTTAGCTT	TTGATTGTTT	21600
AATTCATCAT	ACAGGTGGGA	CAAGTTCTCA	AGATATGACG	GAGTTGGATC	AGCGTTTTTG	21660
GAAAATTTTT	AAACAAGCAA	ATTTTTCAAA	GACAACCTTT	GGTTTATCCT	ATATGAAAGA	21720
TGAAGAAATG	GATCCACAAG	CCTATGAACA	ATTAGTGTCT	TATCTGTGTA	ATACAGGTGC	21780
GAAGATTTTA	TCTAAAGGAA	CTGCTGGACG	ACACAATGAT	GATACAGATA	CCAATATTTC	21840
TTGGTTTTTG	CACTTTTATA	GAATGGTCTT	AGAGACTGGT	TTTGGAAGGG	AGAAAAGATG	21900
ATTATTACAC	AGAGACAGTC	TATTCATTGG	GGAGAAGTTG	GTGGGACTTA	TATGTATGGA	21960
ACAACTGTAT	CTTATTACCC	TGACAAAAGT	GTTCGTCTGT	ATAATCCTCT	ATTGCCATCT	22020
GGTGAGATTC	TAAAGACTTG	GTTTTCTAGT	GTCAATTACC	AGGCTGCACG	AACCCAACCT	22080
CAGCTTCCCT	TATTAAAAAG	AAAGCAGGAG	TATCAACTAT	CACTGGTTTT	TGACTGTCAG	22140
CCTGAAAATG	GAGTTTATAC	CAAGATAACT	TTTTTTGACC	GCTATGGTGA	TATTTTAGAA	22200
AAAAAGGTAG	AAAAAGTGAA	AGATTTCATA	TTTACTTATC	CAGAAGATAG	TTATACTTAT	22260
CGAGTTTCTC	TTTTAAGTGC	TGGATTTGAG	TCCTTAACTT	TTTATCATTT	TTCTATCAAG	22320
GAGATCAGAA	GTGTTTAGAC	GTTTAGGTCA	AGATTTCCAG	CTTAGGAAAG	TGAAAAAGAT	22380
TTTAAAGCAG	ATTAATGCCC	TGAAAGGCAA	GATGTCCTCT	CTTTCGGATC	AAGAATTAGT	22440
AGCTAAAACA	GTAGAGTTTC	GTCAGCGTCT	TTCCGAGGGA	GAAAGTCTAG	ACGATATTTT	22500
GGTTGAAGCT	TTTGCTGTGG	TGCGTGAAGC	AGATAAGCGG	ATTTTAGGGA	TGTTTCCTTA	22560
TGATGTTCAA	GTCATGGGAG	CTATTGTCAT	GCACTATGGA	AATGTTGCTG	AGATGAATAC	22620
GGGGGAAGGT	AAGACCTTGA	CAGCTACCAT	GCCTGTCTAT	TTGAACGCTT	TTTCAGGAGA	22680
AGGAGTGATG	GTTGTGACTC	CTAATGAGTA	TTTATCAAAG	CGTGATGCCG	AGGAAATGGG	22740
TCAAGTTTAT	CGTTTTCTAG	GATTGACCAT	TGGTGTACCA	TTTACGGAAG	ATCCAAAGAA	22800
GGAGATGAAA	GCTGAAGAAA	AGAAGCTTAT	CTATGCTTCG	GATATCATCT	ACACAACCAA	22860
TAGTAATTTA	GGTTTTGATT	ATCTAAATGA	TAACCTAGCC	TCGAATGAAG	AAGGTAAGTT	22920
TTTACGACCG	TTTAACTATG	TGATTATTGA	TGAAATTGAT	GATATCTTGC	TTGATAGTGC	22980

ACAAACTCCT	CTGATTATTG	CGGGTTCTCC	588 TCGTGTTCAG	TCTAATTACT	ATGCGATCAT	23040
TGATACACTT	GTAACAACCT	TGGTCGAAGG	AGAGGATTAT	ATCTTTAAAG	AGGAGAAAGA	23100
GGAGGTTTGG	СТСАСТАСТА	AGGGGGCCAA	GTCTGCTGAG	AATTTCCTAG	GGATTGATAA	23160
TTTATACAAG	GAAGAGCATG	CGTCTTTTGC	TCGTCATTTG	GTTTATGCGA	TTCGAGCTCA	23220
TAAGCTCTTT	ACTAAAGATA	AGGACTATAT	CATTCGTGGA	AATGAGATGG	TACTGGTTGA	23280
TAAGGGAACA	GGGCGTCTAA	TGGAAATGAC	TAAACTTCAA	GGAGGTCTCC	ATCAGGCTAT	23340
TGAAGCCAAG	GAACATGTCA	AATTATCTCC	TGAGACGCGG	GCTATGGCCT	CGATCACCTA	23400
TCAGAGTCTT	TTTAAGATGT	TTAATAAGAT	ATCTGGTATG	ACAGGGACAG	GTAAGGTCGC	23460
GGAAAAAGAG	TTTATTGAAA	CTTACAATAT	GTCTGTAGTA	CGCATTCCAA	CCAATCGTCC	23520
GAGACAACGG	ATTGACTATC	CAGATAATCT	ATATATCACT	TTACCTGAAA	AAGTGTATGC	23580
ATCCTTGGAG	TACATCAAGC	AATACCATGC	TAAGGGAAAT	CCTTTACTCG	TTTTTGTAGG	23640
CTCAGTTGAA	ATGTCTCAAC	TCTATTCGTC	TCTCTTGTTT	CGTGAAGGGA	TTGCCCATAA	23700
TGTCCTAAAT	GCTAATAATG	CGGCGCGTGA	GGCTCAGATT	ATCTCCGAGT	CAGGTCAGAT	23760
GGGGGCTGTG	ACAGTGGCTA	CCTCTATGGC	AGGACGTGGT	ACGGATATCA	AGCTTGGTAA	23820
AGGAGTCGCA	GAGCTTGGGG	GCTTGATTGT	TATTGGGACT	GAGCGGATGG	AAAGTCAGCG	23880
GATCGACCTA	CAAATTCGTG	GCCGTTCTGG	TCGTCAGGGA	GATCCTGGTA	TGAGTAAATT	23940
TTTTGTATCC	TTAGAGGATG	ATGTTATCAA	GAAATTTGGT	CCATCTTGGG	TGCATAAAAA	24000
GTACAAAGAC	TATCAGGTTC	AAGATATGAC	TCAACCGGAA	GTATTGAAAG	GTCGTAAATA	24060
CCGGAAACTA	GTCGAAAAGG	CTCAGCATGC	CAGTGATAGT	GCTGGACGTT	CAGCACGTCG	24120
TCAGACTCTG	GAGTATGCTG	AAAGTATGAA	TATACAACGG	GATATAGTCT	ATAAAGAGAG	24180
AAATCGTCTA	ATAGATGGTT	CTCGTGACTT	AGAGGATGTT	GTTGTGGATA	TCATTGAGAG	24240
ATATACAGAA	GAGGTAGCGG	CTGATCACTA	TGCTAGTCGT	GAATTATTGT	TTCACTTTAT	24300
TGTGACCAAT	ATTAGTTTTC	ATGTTAAAGA	GGTTCCAGAT	TATATAGATG	TAACTGACAA	24360
AACTGCAGTT	CGTAGCTTTA	TGAAGCAGGT	GATTGATAAA	GAACTTTCTG	AAAAGAAAGA	24420
ATTACTTAAT	CAACATGACT	TATATGAACA	GTTTTTACGA	CTTTCACTGC	TTAAAGCCAT	24480
TGATGACAAC	TGGGTAGAGC	AGGTAGACTA	TCTACAACAG	CTATCCATGG	CTATCGGTGG	24540
TCAATCTGCT	AGTCAGAAAA	ATCCAATCGT	AGAGTACTAT	CAAGAAGCCT	ACGCGGGCTT	24600
TGAAGCTATG	AAAGAACAGA	TTCATGCGGA	TATGGTGCGT	AATCTCCTGA	TGGGGCTGGT	24660
TGAGGTCACT	CCAAAAGGTG	AAATCGTGAC	TCATTTTCCA	TAAAAGGAGA	AAATATGACA	24720
ATTTACAATA	TAAATTTAGG	AATTGGTTGG	GCTAGTAGCG	GTGTTGAATA	CGCTCAAGCC	24780

TATCGTGCTG	GTGTTTTTCG	GAAATTAAAT	CTGTCCTCTA	AGTTTATCTT	TACAGATATG	24840
ATTTTAGCCG	ATAATATTCA	GCACTTAACA	GCCAATATTG	GTTTTGATGA	TAATCAGGTT	24900
ATCTGGCTTT	ATAATCATTT	CACAGATATC	AAAATTGCAC	CTACTAGCGT	GACAGTGGAT	24960
GATGTCTTGG	CTTACTTTGG	TGGTGAAGAA	AGTCACAGAG	AAAAAAATGG	CAAGGTTTTA	25020
CGTGTATTCT	TTTTTGACCA	AGATAAGTTT	GTAACCTGTT	ATTTGGTTGA	TGAGAACAAG	25080
GACTTGGTTC	AACATGCCGA	GTATGTTTTT	AAGGGAAACC	TGATTCGGAA	GGATTACTTT	25140
TCTTATACGC	GTTATTGTAG	CGAGTATTTT	GCTCCCAAGG	ACAATGTTGC	AGTCTTATAC	25200
CAACGAACTT	TTTATAATGA	AGACGGGACT	CCAGTCTATG	ATATCTTGAT	GAATCAAGGG	25260
AAGGAAGAAG	TTTATCATTT	CAAGGATAAG	ATTTTCTATG	GAAAGCAAGC	TTTTGTGCGT	25320
GCCTTTATGA	AATCTTTGAA	TTTGAATAAG	TCTGATTTGG	TCATTCTCGA	TAGGGAGACA	25380
GGTATTGGAC	AGGTTGTGTT	TGAGGAAGCA	CAGACAGCAC	ATCTAGCGGT	AGTTGTTCAT	25440
GCGGAGCATT	ATAGTGAAAA	TGCTACAAAT	GAGGACTATA	TCCTTTGGAA	TAACTATTAT	25500
GACTATCAGT	TTACCAATGC	AGATAAGGTT	GACTTCTTTA	TCGTGTCTAC	TGATAGACAA	25560
AATGAAGTTC	TACAAGAGCA	ATTTGCCAAA	TATACTCAGC	ATCAGCCAAA	GATTGTTACC	25620
ATTCCTGTAG	GCAGTATTGA	TTCCTTGACA	GATTCAAGTC	AAGGGCGCAA	ACCATTTTCA	25680
TTGATTACGG	CTTCACGTCT	TGCCAAAGAA	AAGCACATTG	ATTGGCTTGT	GAAAGCTGTG	25740
ATTGAAGCTC	ATAAGGAGTT	ACCGGAACTA	ACCTTTGATA	TCTATGGTAG	TGGTGGAGAA	25800
GATTCTCTGC	TTAGAGAAAT	TATTGCAAAT	CATCAGGCAG	AGGACTATAT	CCAACTCAAG	25860
GGGCATGCGG	AACTTTCGCA	GATTTATAGC	CAGTATGAGG	TCTACTTAAC	GGCTTCTACC	25920
AGCGAAGGAT	TTGGTCTGAC	CTTGATGGAA	GCTATTGGTT	CAGGTCTACC	TCTAATTGGT	25980
TTTGATGTGC	CTTATGGTAA	TCAGACCTTT	ATAGAGGATG	GGCAAAATGG	TTATTTGATT	26040
CCAAGTTCAT	CTGACCATGT	AGAAGACCAA	ATCAAGCAAG	CTTATGCCGC	TAAGATTTGT	26100
CAATTGTATC	AAGAAAATCG	TTTGGAAGCT	ATGCGTGCCT	ATTCTTACCA	AATTGCAGAA	26160
GGCTTCTTGA	CCAAAGAAAT	TTTAGAAAAG	TGGAAGAAAA	CAGTAGAGGA	GGTGCTCCAT	26220
GATTGAACTT	TATGATAGTT	ACAGTCAAGA	AAGTCGAGAT	TTACATGAAA	GTCTAGGCGC	26280
TACTGGTCTT	TCTCAACTTG	GAGTGGTCAT	CGATGCAGAT	GGTTTTCTGC	CTGATGGTCT	26340
GCTTTCTCCT	TTTACCTATT	ATCTAGGTTA	CGAGGATGGA	AAACCTCTCT	ATTTTAATCA	26400
AGTTCCCGTT	TCAGATTTTT	GGGAAATTTT	AGGAGATAAT	CAGTCTGCTT	GTATTGAAGA	26460
TGTGACGCAG	GAGAGGGCTG	TCATTCATTA	TGCTGATGGA	ATGCAGGCTC	GCTTGGTTAA	26520

ACAGGTAGAC	TGGAAAGACC	TAGAAGGTCG	590 AGTACGTCAG	GTTGACCACT	ACAATCGCTT	26580
CGGAGCTTGT	TTTGCTACAA	CGACTTATAG	CGCAGATAGC	GAGCCGATTA	TGACAGTTTA	26640
CCAAGATGTC	AATGGTCAAC	AAGTTTTACT	GGAAAACCAT	GTGACGGGTG	ATATCTTATT	26700
GACTTTGCCA	GGTCAGTCCA	TGCGTTACTT	TGCAAATAAA	GTTGAATTTA	TCACCTTCTT	26760
TTTGCAAGAT	TTGGAAATAG	ATACCAGTCA	GCTTATCTTT	AATACTCTAG	CGACTCCTTT	26820
CTTGGTTTCC	TTCCATCATC	CAGATAAATC	TGGCTCGGAT	GTCTTGGTAT	GGCAGGAACC	26880
TCTCTATGAT	GCCATTCCAG	GTAATATGCA	GTTGATTTTG	GAAAGTGATA	ATGTGCGTAC	26940
TAAGAAGATC	ATCATTCCAA	ATAAGGCGAC	TTATGAGCGC	GCTTTAGAGT	TAACTGACGA	27000
GAAATACCAT	GATCAGTTTG	TGCACTTGGG	TTATCATTAC	CAGTTCAAAC	GTGATAATTT	27060
CCTAAGACGA	GATGCCTTAA	TCTTGACCAA	TTCAGATCAG	ATTGAGCAAG	TAGAAGCAAT	27120
CGCAGGAGCC	TTGCCTGATG	TCACTTTCCG	TATTGCAGCG	GTGACAGAGA	TGTCTTCTAA	27180
GCTCTTAGAC	ATGCTTTGCT	ATCCTAATGT	GGCCCTTTAC	CAGAACGCTA	GTCCACAGAA	27240
GATTCAGGAG	CTGTATCAAC	TGTCGGATAT	TTACTTGGAT	ATAAACCACA	GTAATGAGTT	27300
GCTACAGGCA	GTGCGTCAGG	CCTTTGAGCA	CAATCTCTTG	ATTCTTGGCT	TTAATCAGAC	27360
GGTGCACAAT	AGACTTTATA	TCGCTCCAGA	CCATCTATTT	GAAAGTAGTG	AAGTTGCTGC	27420
TTTGGTTGAG	ACCATTAAAT	TGGCCCTTTC	AGATGTTGAT	CAAATGCGTC	AGGCACTTGG	27480
CAAACAAGGC	CAACATGCAA	ATTATGTTGA	CTTGGTGAGA	TATCAGGAAA	CCATGCAAAC	27540
TGTTTTAGGA	GGCTAACATG	TCAGAGGAAG	ATTTATTTTA	CAAAGACGTT	GAAGGCCGCA	27600
TGGAAGAGTT	GAAACAAAAA	CCCATCAAGA	AGGAAAAAGA	AACCCGAGGG	GAAAAGATTA	27660
GTAAGACTTT	TTCACTTTTA	CTGGGTTTGA	TGATTCTGAT	TGGTTTGCTC	TTTACTTTGC	27720
TGGGAATTTT	GAGGTAGATC	TATGATTGAA	ATACTAATTG	TTTTAGCTAT	TATCCTATCT	27780
CTTGCTTTGA	TTGTATTGGT	AACTATACAA	CCCCGTCAAA	ATCAACTATT	TTCCATGGAT	27840
GCCACTAGTA	ATATTGGTAA	ACCAAGCTAC	TGGCAGAGCA	ACACCTTGGT	CAAGGTGCTC	27900
ACTTTATTGG	TGAGTTTGGC	TTTATTTATT	CTACTATTAA	CCTTTATGGT	GATTACTTAT	27960
AAATAAAAGA	AAACTTCAGA	TATTCACCTT	TTGTGGATTG	GTCTGAAGTT	TTCTTTTTTA	28020
TACTCAATGA	AAATCAAAGA	GCAAACTAGG	AAGCTAGCCG	CAGGCTgCTC	AAAACACCGT	28080
TTTGAGGTTG	TAGATATAAC	TGACGAAGTC	AGCTCAAAAC	ACCGTTTTGA	GGTTGTAGAT	28140
ATAACTGACG	AAGTCAGCTC	AAAACACCGT	TTTGAGGTTG	TGGATAGAAC	TGACGAAGTC	28200
AGCTCAAAAC	ACCGTTTTGA	GGTTGTGGAT	AGAACTGACG	AAGTCAGCTC	AAAACACCGT	28260
TTTGAGGTTG	TGGATAGAAC	TGACGAAGTC	AGCTCAAAAC	ACCGTTTTGA	GGTTGTGGAT	28320

AGAACTGACG	AAGctCAGTA	ACATATATAC	AGCAAGGCGA	CGCTGACGTG	GTTTGAAGAG	28380
TATTACTGTC	TATATTTTTG	GTAAAAATCA	ACTTTTACTT	GGATGAAGGT	TTTGGCTTCA	28440
CGTAGGAGTT	GAAGAAGGGT	GGCGCGGGTT	TCAAATTCTT	CTCTTGTCTT	GGGCAGACTG	28500
CGGTTCCGGA	AGACTTCCAG	ATAACGTTCA	ATTTCATCTA	GCAAATCAGA	AGCAGGATTG	28560
GTCTGGCTCA	GTTGACCTGC	AATTTTTGAA	AAGAGTTGCG	CTAAGATCAG	GCTTTCACTG	28620
GCGGCAAGGT	GACAAGTGTT	AATCTGTTGG	GCCATGTTTC	TCAGGATACG	ACTTTGTCGC	28680
TGTCTCATCT	CAAAGTAGTG	GATATGGTAG	TCTGTCTGGT	GAAAGAGGTG	GTCAGAGTGA	28740
TCCAAATAGA	CCAGTCTGAG	GGCTTCTTTC	AAAAGCGTGT	CTAATTCTGC	TACCAGCTGT	28800
GCTCGGTTGC	GTCCGTCTCC	TCTGGATAAA	TAGTATTTGA	AGCGCTGGAG	GATATCTTTT	28860
AACTTTTCTT	CCACCAGCGT	GTGGTAGTGC	TGGATTTCCT	CTTCTCGTGA	AGGCATATAG	28920
AGATTAACAA	GCAAGGCAAA	TCCTGTACCA	ATAGCAAAGA	GAAGGAATTC	ATTGACTAGA	28980
AGGTCTGGAG	AGGTTGACTC	TTGAACCAAG	AGATGGCTAA	CCAAAACAGT	GCTTGGTGTG	29040
ATGCCAATTT	CCCAGCCCAT	CTTGTAGGCT	AAAGGAACGT	AGAAGGCCAG	ATAGAGGCCG	29100
AGACTCCAGA	TATGAAATCC	GCTCAAGTGA	AAAGCTAGAA	CACCGATAGC	CAGAGCTAGA	29160
AGCATAGAAA	AAAGACGATT	GCGAGCCAGT	TTTAAAGTAC	TTCTACGCGT	ATCAGATAGG	29220
CTCAAGAGAG	CGATAATTCC	AGCCGAAACT	GCTGACGAAA	GATTGAGAAA	ATAAGCAAGC	29280
AGGCAGGCAA	GACAGGTAGC	TAAGATGAGC	TTGGTCGTAC	GTTGGCTAAT	AGACATAAGA	29340
ATTTCCTAAT	AAGTTAGAAT	AAAAGCGTAA	AAGACAAGAC	ATGAGCAGGC	TTGCCTTGAT	29400
GAGTTATTTT	TTACGGGTTG	CTGCGTATTC	GGCAACGGCG	GTAAAGAGGA	CATCTGTAGA	29460
AGAGTTAAGG	GCTGTTTCAC	ATGAGTCTTG	GATGACACCA	ATCACAAAAC	CAACCCCAAC	29520
AATTTGTATG	GCAATATCGT	TAGAAATACC	GAAAAGGCTA	CAAGCAACTG	GGATAAGAAG	29580
GAGGGAACCT	CCGGCAATAC	CTGAAGCATC	ACAGGATGAG	ATAGCTGCTA	CCACACTGAG	29640
GACAAAGGCT	GTGGCAAAGT	CAACAGGAAT	TCCAAGAGTG	TTAACTGCAG	CAAGGGTCAA	29700
AAGGTTAATG	GTAATCGCTA	CTCCAGCCAT	ATTGATAGTA	GAACCGAGTG	GGATAGAAAC	29760
AGAATAGGTA	TCTGGGTTGA	GTCCAAGGTC	ATGGCAGAGT	TTCATGTTGA	CAGGAATGTT	29820
AGTCGCAGAA	CTACGAGTGA	AAAAGGCTGT	CACACCGCTG	ACACGGAGGC	AGTTCCAAAC	29880
TAGAGGGTAA	GGATTGCGTC	TCATAAAGAA	GAAGGCAATC	AAAGGGTTGA	CCACAGGGGC	29940
AACAAAAAGC	ATAGTCGTTA	CTAATAGAAC	СААТААААТА	CCGTAGTTGG	CAAGGCTTCC	30000
GACTCCCTTG	TCAGAAATGG	TTTTAAAAAC	AAGACCAAGG	ATTCCAAATG	GAGCCAGATT	30060

592 GATGATCCAT TCGACAATTT TAGAAGTCAC GTCAGCGATA GTTTTTAGCA ATTCTTGACT 30120 ATTTTTACTG GCTTCTCTCA TAGCGATTCC AAAAATGACT GCCCAAGATA AGATTCTAAT 30180 ATAGTTAGCA GTAAGCAGGG CGTTGACTGG GTTGTCAACC AGTTTGAGCA AGAGGTTGCT 30240 GAGAACCTGC CCAATCCCAT CTGGTGGTGC AATTTCAGTA TTGGCACTAT TTGGGGTAAT 30300 TTCAATAGGG ACGATGAAAT TTGCTAGTAC AGCTACAAGA GCAGCGGCGA AAGTCCCTAT 30360 CATAGGATAT ACAAGAAAAC AACAGTTTTC ATATTGCTAT CTTGTCCCTT TTGATGTTGG 30420 GAAAGGCAT TGGCAACGAG AGCAAAGACT AGGATAGGAG CAACAGCTTT TAGACCTCCA 30480 ACGAATAAAT CCTCGAGTAG CCCAATCCCT GAGAGATTAG GAAGGGTCAG TCCTAGGATT 30540 CCCCACAAAG CATACCAATC AAGATACGCT TGACAAGGCT TGCCTTATTC CAAGCATGAA 30600 TGATTCTTTT CATAATAATC TCCTTTTTGT GTAGTGATTA TGATTATAGT ATAAATGATA 30660 GACAAAATCA AGAATTTTCT GTCTATTTTT TGAATATTTA TGGAGAATGA GACTGATGAA 30720 AATATGGTAT AATGAAATAA AGGAGTTTTA TATGCAAAAA TTTATTCAGG CTTATATTGA 30780 AAAGCTAGAT GTGACAACCA TTATCGAGAA TATTCTAACC AAGGTCATTT CTCTTTTACT 30840 GCTTTTAATT GTATTTTATA TTGCTAAAAA AATGCTTCAT ACCATGGTGC AGAGAATTGT 30900 CAAACCTTCT CTAAAAATGT CTCGTCATGA TGTTGGACGC CAAAAAACCA TCTCACGTTT 30960 ACTAGAAAAT GTGTTTAATT ATACGCTATA TTTCTTTTTA CTCTACTGCA TTTTGTCGAT 31020 TTTAGGTTTG CCAGTTTCTA GTTTGCTGGC TGGAGCTGGT ATTGCTGGGG TAGCGATTGG 31080 TATGGGAGCC CAAGGCTTTC TGTCTGATGT CATCAATGGC TTTTTCATCC TCTTTGAACG 31140 TCAACTGGAT GTGGGAGATG AGGTCGTTCT GACAAATGGA CCGATTACTG TATCGGGTAA 31200 GGTTGTCAGT GTGGGAATTC GTACGACACA GCTTCGTAGC GAGGAGCAAG CCCTTCACTT 31260 TGTCCCTAAC CGAAATATCA CAGTTGTTAG CAATTTCTCA CGCACAGACT AGACCTGTTA 31320 TTTTAAGTAA TTTGTGGTAC AATAGAGGGA GTTTAATAAG GAGAAAAGAT GGTTTTAGAA 31380 AAGCAGTTGG GCAATGGTTG TACCTGGATA GACCTAGACC TAGGAAAGTT GAATAAACTA 31440 GAAGACCTTT CTGAAATTTA CGGTTTGGAC AAGGAAACCA TTGAATACGC ACTGGATAGA 31500 AACGAGCGCG CCCACATGGA CTACCACCGT GAAAGTGAGA CGGTTACCTT TATCTATAAT 31560 GTCTTAGACG TAAAAAAGGA CAAGGCCTAC TATGAGACTT TTCCCATGAC CTTTATTGTC 31620 GAGCATCGTC GCCTGATTAC CATTAGTAAT ACCAAGAACG CCTATGTCAT TGAACAGATG 31680 ACTCGTTATC TGGAGAACCA TGACACGCTT TCGATTTATA AGTTTCTCTT TGCCAGTCTG 31740 GAAATCATCA GCAATGCCTA CTATCCTGTC ATTGAGCAGA TGGACAAGAG TAGGGATGAG 31800 GTCAATGACC TCTTGCGCCA GCGAACTACC AAGAAAAACC TCTTTGTCCT GTCTGATTTG 31860

593

GAGACTGGTA	TGGTTTATCT	GACGGCAGCT	GCCAAACAAA	ATCGGATTTT	GTTAGAGCAT	31920
ATTCAAGGTC	ATGCCTTGTA	TCGTAGTTTT	GATGAGATTG	AGAGAGAACA	GTTTGATGAT	31980
GCCATGATTG	AGGCTCATCA	GCTGGTATCC	ATGACAGACC	TAATCTCTCA	GATTTTACAG	32040
CAGCTTTCAG	CCTCTTACAA	CAATATTCTA	AACAATAATC	TGAATGACAA	TTTGACAACC	32100
TTGACTATCA	TTTCAGTCTT	GCTAGCTGTT	TTGGCAGTCG	TGACAGGCTT	TTTCGGAATG	32160
AATGTTCCCT	TACCTTTAAC	AGATGAGCCC	CATGCTTGGC	TCTATATCAG	TTTGGCTAGT	32220
GCAGGTTTGT	GGATTGTTTT	ATCCTTGTTA	CTAAGGAAAA	TTGCGAAAAA	AAGTTAAGAA	32280
AAGGAGCCAG	AATGGCGATT	GAAAATTATA	TACCAGATTT	TGCTGTGGAA	GCAGTCTATG	32340
ATCTGACAGT	CCCAAGCCTG	CAGGCGCAGG	GAATAAAGGC	TGTTTTGGTC	GATTTGGATA	32400
ATACCCTCAT	TGCTTGGAAC	AACCCTGATG	GAACGCCAGA	GATGAAGCAA	TGGCTACATG	32460
ACCTTCGGGA	CGCGGGTATT	GGCATTATCG	TAGTGTCAAA	TAACACCAAA	AAACGCGTTC	32520
AACGAGCAGT	TGAGAAATTT	GGGATTGATT	ACGTTTACTG	GGCCTTGAAG	CCCTTCACAT	32580
TTGGTATTGA	CCGTGCTATG	AAGGAATTCC	ACTATGACAA	AAAGGAAGTG	GTCATGGTTG	32640
GTGACCAACT	CATGACAGAT	ATACGAGCAG	CCCACCGTGC	AGGGATTCGG	TCAATTTTAG	32700
TCAAACCCTT	GGTCCAACAT	GACTCAATCA	AAACGCAGAT	TAACCGAACT	CGTGAGCGTC	32760
GTGTTATG						32768

(2) INFORMATION FOR SEQ ID NO: 72:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14872 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 72:

CCAGTCACAA	AGAAATTGAG	CGCGTTCAGc	TGAGGATGCA	CTATGATGCA	AGCTACATTT	60
CATTTGATGG	GATATTAAGA	AAGGAGATTT	TCATGACACT	TTTAGATGTA	AAACACGTTC	120
AAAAAATTTA	TAAAACACGT	TTTCAGGGCA	ACCAAGTAGA	AGCCCTCAAG	GATATTCACT	180
TTACCGTAGA	AAAGGGTGAC	TACGTTGCCA	TCATGGGTGA	GTCTGGTTCT	GGTAAATCAA	240
CTCTTCTCAA	TATTCTAGCT	ATGTTGGATA	AACCAAGTCG	TGGTCAGGTT	TACTTGAATG	300
GAACTGACAC	CGCAACTATT	AAAAATTCAC	AGGCTTCTAG	TTTCCGGCGT	GAAAAGCTAG	360
GATTTGTCTT	CCAAGACTTT	AACTTGCTAG	ATACTCTGTC	TGTTAAGGAC	AATATCTTGC	420

594 TTCCGCTTGT CTTGTCAAGA AGACCTATAA CGGAGATGAT GAAGAAATTG GTGGTGACAG 480 CTGAGAATCT GGGTATTAAC CAATTGCAAG AGAAGTACCC TTACGAGATT TCTGGTGGTC 540 AGAAACAGCG TGTAGCAGTA GCCCGCGCCA TCATCACAGA ACCTGAAATT CTCCTTGCGG 600 ACGAGCCAAC AGGAGCCCTT GATTCCAAGT CATCTGCAGC CTTACTTGAT GTCTTTAATG 660 AAATCAATGA GCGTGGGCAA ACCATCCTCA TGGTAACCCA CTCAACAGCA GCTGCTAGCA 720 GGGCCAAGCG TGTTCTCTTT ATCAAAGACG GCATTCTTTA CAACCAAATC TACCGTGGAG 780 AGAAGACAGA GCGTCAGATG TTCCAAGAAA TCTCTGATAC CTTGACTGTC ATGGCAAGCG 840 AGGTGAATTA GTATGTTTCG ATTAACCAAT AAGTTAGCGG TATCGAACTT GATTAAAAAC 900 CGCAAACTCT ACTATCCCTT TGCACTGGCT GTTCTCTTGG CAGTCACCAT CACCTATCTC 960 TTTTACTCCC TAACCTTCAA TCCAAAGATT GCGGAAATCC GTGGAGGAAC CACCATTCAA 1020 GCAACACTTG GATTTGGTAT GTTTGTCGTT ACCCTTGCGT CACCATTATC GTCCTCTATG 1080 CCAATAGTTT TGTCATGAAA AACCGTTCCA AGGAACTGGG TATATATGGC ATGTTAGGCT 1140 TGGAGAAGCG CCATCTAATC AGTATGACCT TTAAGGAGTT AGTGGTATTT GGGATTCTAA 1200 CTGTTGGAGC GGGTATCGGT ATTGGAGCCT TGTTTGACAA GTTAATTTTC GCTTTCCTGC 1260 TCAAACTAAT GAAACTGAAG GTTGAGCTGG TTGCTACCTT CCAAATGAAT GTTGTCATTG 1320 CAGTACTTGT TGTCTTTGGA TTGATTTTCC TAGGCCTCAT GTTCCTGAAT GCTCTTCGAA 1380 TCGCCCGTAT GAATGCCCTC CAGCTCTCGC GTGAGAAAGC AAGCGGAGAG AAAAGAGGTC 1440 GCTTCCTACC TCTCCAAACG ATTCTTGGTT CCATAAGTTT AGGGATTGGC TATTATCTTG 1500 CCCTTACGGT AACCGATCCT CTTACAGCCC TAACAACTTT CTTCCTAGCT GTTTTGCTGG 1560 TTATCTTTGG TACTTATCTA TTGTTTAATG CAGGGATTAC AGTCTTCCTA CAAATCTTAA 1620 AGAAAAACAA GAAATACTAT TACCAACCTA ATAACCTCAT ATCTGTTTCC AACTTGATTT 1680 TCCGTATGAA GAAAAATGCG GTTGGACTAG CAACCATCGC TATTTTGTCA ACAATGGTTT 1740 TGGTAACCAT GTCAGCAGCG ACAAGCATTT TCAATTCCGC AGAAAGCTTT AAAAAAGTTC 1800 TAAATCCTCA TGATTTTGGG GTTTCAGGGC AAAATGTTGA AAAAGAAGAT TTGGACAAAC 1860 TCTTGAGCCA GTTTGCAAGT GACAAAGGTT ATAGTGTCAA AGAGAAAGAA GTACTTCGTT 1920 ACAGTAACTT TGGTATTGCA AATCAAGAAG GAACCAAGTT AACTATTTTT GAAAAAGGAC 1980 AAAACCGTGT CCAACCCACA ACAGTTTTCA TGGTATTTGA CCAAAAAGAT TATGAAAATA 2040 TGACTGGTCA AAAACTGTCT CTATCAGGAA ATGAGGTCGG TCTCTTTGCC AAAAATGACG 2100 GACTGAAAGG ACAGAAAGCT CTAACTCTAA ATGATCATCA ATTTTCTGTC AAAGAAGAAT 2160 TTAATAAGA TTTCATTGTG AACCATGTTC CAAATAAGTT TAATATCTTG ACTACTGATT 2220

ACAATTACCT	TGTTGTTCCT	GATTTACAAG	CCTTTTTGGA	TCAATTCCCA	GATTCGGCTA	2280
TCTATAATCA	GTTTTACGGT	GGTATGAATG	TAAATGTCAG	TGAAGAAGAA	CAACTCAAGG	2340
TCGCTGAGGA	GTATGAAAAC	TACCTCAATC	AATTTAATGC	TCAATTAGAC	ACAGAAGGTA	2400
GCTATGTTTA	TGGTAGCAAT	CTAGCAGATG	CTAGTTCTCA	GATGAGTGCC	CTCTTTGGTG	2460
GTGTCTTCTT	TATCGGTATT	TTCCTATCCA	TTATCTTTAT	GGTCGGAACT	GTTCTGGTCA	2520
TCTACTACAA	ACAAATTTCT	GAAGGCTACG	AAGACCGTGA	ACGCTTTATT	ATCTTGCAGA	2580
AAGTCGGTTT	GGACCAAAAG	CAAATCAAGC	AAACCATCAA	CAAACAGGTT	TTAACTGTTT	2640
TCTTCCTTCC	TTTGCTCTTT	GCCTTCATAC	ATCTCGCCTT	TGCCTACCAT	ATGCTTAGCC	2700
TGATTTTAAA	AGTGATTGGT	GTACTGGATA	CGACTATGAT	GTTGATTGTG	ACCTTGTCTA	2760
TCTGCGCTAT	CTTCCTCATC	GCCTATGTGC	TGATTTTCAT	GATTACTTCA	AGAAGTTATC	2820
GCAAGATTGT	GCAAATGTAA	AAAAGATACC	TCGACTTCAA	AATCGAGGTA	TTTCTTGTAT	2880
TCTAAATGCT	GAAAAGTTGT	CCGAGCAGGA	AGGTAACTCC	CATGGTCAAG	AGACCAATAG	2940
CAAGGTTCCG	AATCATAGCT	GTTTTGGTTG	GGGCTTTTCC	AAGTCTAGCA	CTTGTGTAAC	3000
CAGTGAGAAG	AAGGGCCACA	CCGACAATAA	GGACGGTAGC	AGGGATGCGG	TAATCACTTG	3060
GAAAAATGGT	CACTGACAGC	ATTGGAGGCA	AACTTCTAAG	GAAAAAGGCA	ACGAAGCTAG	3120
AAATGGCAGC	GTGCCAAGGA	TTGGTAAATT	CTTCATACTC	AATCCCATAT	TTTTCCTCTA	3180
CCAGAGCCTT	GAGTGGATTT	TTAAGAAAGA	TCTTATTGGT	CAAGAGTTGG	GCAGAAGTTT	3240
TGAATTCTCC	ATTTTGGATA	TAAGCAGCAT	AGAGGGATTT	TTTGGCTAGT	TCCCTATCTT	3300
GGTCTAGCAA	GAGTTTTTCT	CGCGAAACGG	CAGCTTCCTC	GGTATCTTTT	GGAGTTGAAA	3360
CGGATACATA	TTCTCCACCA	GCCATTGAAA	AGGCACCAGC	TAAGATAGCC	GTAAAACCTG	3420
ATAAAAAGAT	AATCCAGATA	TTGGTCGTGG	CACTGGCAAC	TCCGATAACC	ACACCAGCAA	3480
TGGAAATAAT	TCCATCGTTA	GCATCAAGAA	CACCCGCACG	CAGGATATTT	AAACGACCTG	3540
CAAAATTTGA	ATCAATTTCG	TGATTTGTTT	CTGACGCTAA	ATTTCAAGTT	CAAGTTAGCC	3600
ATCAAGAAGT	CTTCTCTGGG	TGACTTGTAG	TCCAAGCATT	TTTTAGGATA	GTTGTTAATC	3660
CACTTTTCGA	TGAATGCGAC	TTCTTTGGGA	GTCATTTTCT	TGGTTCCCTT	AGGTAACCAT	3720
CTACGAATGA	GCCTGTTGTG	ATTCTCATTA	GTTCCCCTTT	CCCAAGAGGC	ATAGGGATGT	3780
GCATAATAAA	TGTGCTCCTC	AGAAAATACA	TTAGACAAGC	GATTGAATTC	CGTTCCATTA	3840
TCTGCCGTGA	TGGAAAGAAT	CTTGTGTTGT	TTTAAGATGA	GTTTTAGAGC	CTGATTGACC	3900
ACATCAGCAC	TTTTATTTGG	AATCAATCGG	ATGATCTGAT	GTCTACTTTT	TCGATCCGTC	3960

596 AAGACAAGCA AGCAGTAGTT TTTCGCTCTC GTAAGTAGAA CTGTATCAAT CTCATAATGC 4020 CCATTCTCCA AGCGAAAATT GATAGCTTCA AGCCGCTGTT CGATGGATTG ACCAGCAGGT 4080 TTAAAGTTGG TGCTGGCCTG TTTCTTAAGC GCTTTTCCTT TTCTAGGGTA AAGCAGATCC 4140 TGTTTGCTTA ACCCCAATTT TCCATGATGA ATCCAATAGT AAATGGTTGA AATTCCCACG 4200 TTAACCCCTT TAGCCATCAC CATCATTTCA GGCGAAAATT TTTGGTTATG ATAGTGGAGA 4260 ATCTTTTCCT TTAGTTCCTT GGTCAAGCTT GATTTCTTGA CCGAGCGCTT GCGATTGTTT 4320 TCATAAGACT GTTGAGCATA GTCGGCAGAA TAAACCTCTT TGAAGCGCCC TTTTCCAAGA 4380 CATTGTCGGA CTGTCCCACG CTTGATTTCA GTGTGGATAG TTTGAGGAAC TTTTCCAAGC 4440 AGAGAGGCAA TTTCTCTATT TGATTTCCCT TCTTTTTTCC ATCTTTCGAT TAAGCGACGG 4500 CTATCGATTG TCAAATGTTC GCCTTTTGTA GTATAATGGT TTTGCATCTC TGTGCCTTTC 4560 TTGTGTTTGT GGTTGAACAA CAAGTATAAC ACAGAGGTGT TTTCTTATGC CTACAAGAGC 4620 TATCGGCTAG TTGAACCATC TAATTTTTAG GAGGGCTGGG TGGCTAACTT CATTATAGAA 4680 CTTTCATTTA CGAACATATA GTAAAATGAA ACAAGAACAG AACAAATCGA TCAGGACAGT 4740 AAAATCTATT TCTAACAATG TTTTAGAAGC AGAGGTGTAC TATTCTAGTT TCAATCTATT 4800 ATATTTTTGT TTTTTATCAA AAAATACTTT ACAAGTTCTT AAAAACATGA TATAGTAATA 4860 AAGCTTAGAA AATGAGATGA TGTTTTCTAG CAAATATAAA CCCGAGTAAA AAATGCCTAC 4920 GGACAGCAG GGTTGAATGC CGAAGCGTGG TTGAAAAGCC ACATTATTGA TAGGGTTAAA 4980 AGCCTACTTT TATAAGTTGA TGTTAGGACA CTTGTCCTAA TTCATAAATT TTTAGTGTGG 5040 TGAAAGCACA CGTCATCTTG TGAAACGATC AATAAAGTAC GTAATATTTG CTACTAGAGA 5100 GTTAGGAAAC ATCGGGAACA GACATACTCA ACAGAAACCA AAATAAACAC GTCAGAAGAT 5160 TGCAGAGCAG GTGAAAACCT GCTCTTTTTT CATGAGTCAA CCTTTAGTTC CTTAGTTTTC 5220 ATAAGGTCCT AAAAATATTG AAAGGAGTAT GTTTTGAAAG AGTTAGATCA AAACCAAGCC 5280 CCAATTTATG AGGCCTTGGT GAAGTTACGC AAGAAAAGGA TTGTTCCCTT TGATGTTCCA 5340 GGTCACAAGC GTGGACGGGG AAATCCAGAA CTTGTCGAAC TCTTAGGAGA AAAATGTGTA 5400 GGCATTGATG TCAATTCGAT GAAACCTTTG GATAATTTAG GCCATCCTAT TTCGATTATT 5460 CGTGATGCAG AGGAGCTGGC TGCAGATGCT TTTGGAGCTA GCCATGCCTT TCTAATGATT 5520 GGTGGAACAA CTTCATCGGT GCAGACTATG ATTCTGGCAA CCTGCAAGGC AGGAGATAAG 5580 ATTATTCTGC CACGAAATGT CCATAAATCT GCTATCAATG CGTTGGTTCT ATGTGGTGCC 5640 ATTCCCATCT ATATCGAGAT GAGTGTAGAT CCTAAGATTG GTATCGCTTT AGGTCTTGAA 5700 AATGACCGAG TAGCACAGGC CATAAAGGAC CATCCAGATG CTAAGGCTAT CCTAATCAAC 5760

AATCCTACTT	ACTACGGCAT	CTGTTCAGAC	CTAAAGGGGT	TGACAGAAAT	GGCTCATGAA	5820
GCTGGCATGA	TGGTTTTAGT	AGATGAAGCC	CACGGAGCGC	ATTTGCATTT	CACTGATAAA	5880
CTTCCAATTT	CTGCTATGGA	TGCAGGGGCT	GATATGGCAG	CAGTTTCCAT	GCATAAGTCT	5940
GGTGGGAGTT	TGACCCAAAG	CTCCATTTTA	CTTATCGGGG	AGCAGATGAA	TTCTGAATAC	6000
GTTCGTCAGA	TAATTAACCT	GACCCAGTCT	ACATCTGCCT	CTTACTTGTT	GATGGCTAGT	6060
TTGGATATTT	CACGTCGCAA	CTTGGCCCTT	CGTGGTAAAG	AGTCGTTTGA	GAAAGTCATT	6120
GAGCTATCTG	AGTATGCCCG	CCGTGAAATC	AATGCTATCG	GTGGCTACTA	TGCCTACTCA	6180
AAAGAGTTAA	TAGACGGTGT	TTCGGTTTGC	GATTTTGACG	TAACTAAGCT	GTCAGTTTAC	6240
ACTCAGGGTA	TTGGCTTAAC	AGGTATCGAG	GTTTATGACC	TCTTGCGAGA	CGAATACGAC	6300
ATTCAGATCG	AGTTTGGTGA	TATCGGCAAT	ATCTTGGCCT	ATATTTCCAT	CGGCGACCGC	6360
ATCCAAGACA	TCGAGCGCTT	GGTTGGTGCT	CTGGCTGATA	TTAAGAGACT	CTATTCAAGA	6420
GATGGAAAAG	ATTTGATAGC	AGGAGAATAT	ATTCAGCCCG	AGTTAGTGCT	GTCTCCGCAA	6480
GAAGCCTTCT	ATTCAGAAAG	AAAAAGTTTA	ACTTTGGATG	ATTCTGTTGG	ACAGGTCTGT	6540
GGAGAATTTG	TTATGTGTTA	CCCTCCAGGT	ATTCCTATCT	TGGCTCCTGG	TGAACGCATT	6600
ACACGAGAAA	TTGTCGACTA	TATCCAATTC	GCCAAGGAAC	GTGGTTGCTC	CCTCCAAGGG	6660
ACGGAAGATC	CAGAGGTCAA	TCATATCAAC	GTTATTAAGA	GAAAGACAAA	CTATAAGAAA	6720
AGTCAATAGT	ТТТАТСТААА	CTATTTCTTA	TTTCAATTTG	ATGATTTGGC	GATGATTTTA	6780
GAGCACGGCA	AAAAGCCCTT	GAATTAGAAG	CGGTCAATCG	CTTAATTTCT	ATCAGCTTAT	6840
CAAATCCTGC	CTCAAGCCTT	TTCTGAGGAT	TAGGGTAGCG	TGTCAAGAGT	TGGTAGGTAT	6900
ATTCTGAATG	CTTTCCAACG	ATTTTATCCA	ACTCAGGAAA	GATGATATCA	AGACAACGAG	6960
TGTATTGTAC	TTTCCAATCA	GACTGTTTTT	TCTTGAGACG	ATGAATATGT	CTAGCCAGTA	7020
TTTTTAGTTC	TACTTGCCGA	TTATCGTGTT	GAAATTGTTC	ACGATTGGGG	TCAGAAAGAA	7080
GTTTAAGAGC	GATGCCATGA	GCGTCTTTCT	TATCCGTTTT	AGTTTTGCGA	AGTGATAATG	7140
ATTTGGCAAA	TTTCTTGATG	AGCAAAGGAT	TGTAGGTGTA	AACTTTATAT	CCTTGTTCAT	7200
GCAGGAAGTT	CAGTAGATTA	AAGGCATAAT	GTCCGGTATT	TTCAAGAGCG	ATGAGACAGT	7260
CTTGGTTGAG	CTGTCGAAGA	GACAGATCTA	AGAGTTCAAA	ACCAGCTTTA	TTATTTGAAA	7320
AAGTGAGTGG	TTTAAGAACA	GTTTTTCCTG	GAACATTCAA	GGCTGTAACA	TCGTGTTTAT	7380
TTTTAGCGAC	ATCAATGCCC	ACATAAAGCA	TGGGAGTATC	TCCAGATATA	GTATTTCAAG	7440
TCTACTGGGT	TATCCACGAA	CTTTTTGCCT	TGTTACCTTA	GACGAGATAA	AACGTCTATG	7500

CGTTATCAAA	CTCATTACCA	ATTGAAACAA	598 AAAACTGTGG	TTAGAGCCTT	TCGGAAATCG	7560
TCAAGCGATT	GGAGGAAATG	AACTAATCCA	CAGTGGCTTA	TTCCAAGTAT	ACCACTTGGG	7620
CTTTGGCAGT	AGCTAACTGC	GCTAAATATA	ATATAAGGAG	AAATAGATGG	ATTTATGGTT	7680
TTCTGAAGTT	CATACTCCAG	ATGTCAAATT	GTCTCTGAGA	ACAGCCAAGC	AACTTTACGC	7740
TGGAAAAAGT	GAATGGCAGG	ATATCGAAGT	CTTGGATACG	CCAGCTTTTG	GGAAAATACT	7800
GATTTTAAAT	GGCCATGTCT	TGTTCTCAGA	TGCGGATGAT	TTCGTCTACA	ATGAAATGAC	7860
CGTTCACGTT	CCCATGGCTG	TCCACCCAAA	TCCAAAGAAA	GTATTGGTTA	TTGGGGGTGG	7920
TGACGGCGGT	GTTGCCCAAG	TATTAACCCT	CTATCCTGAA	CTGGAGCAAA	TTGATATTGT	7980
GGAACCGGAT	GAGATGTTGG	TCGAGGTCTG	TCGTGAGTAT	TTCCCAGACT	TTGCTGCAGG	8040
GCTAGATGAT	CCTCGTGTTA	CCATTTACTA	CCAAAATGGG	CTACGCTTTT	TGCGAAACTG	8100
CGAAGATGAT	TACGATATTA	TCATCAACGA	TGCGACAGAT	CCATTTGGCC	ATACGGAAGG	8160
ACTCTTTACC	AAGGAATTCT	ACGGCAATAG	TTATCGAGCT	CTGAAGGAAG	ACGGCATCAT	8220
GATTTACCAG	CATGGGAGTC	CCTTCTTTGA	CGAGGATGAG	TCGGCCTGCC	GAAGCATGCA	8280
CCGCAAGGTC	AATCAAGCCT	TTCCAATCAG	TCGGGTTTAT	CAGGCCCATA	TTCCAACTAG	8340
CCCAGCTGGC	TATTGGTTGT	TTGGATTTGC	ATCGAAAAAA	TACCACCCTG	TCAAAGATTT	8400
TGACAAGGAA	GGCTGGAAAA	AACGCCAGCT	TTTCACAGAA	TACTACACTG	CAAACTTACA	8460
CGTGGGAGCC	TTTATGTTGC	CCAAGTATGT	TGAGGACATT	TTAGAAGAAG	AGGAAGGAAA	8520
AAAATGAGTC	GTTTACTAGT	TATTGGTTGT	GGGGGCGTTG	CCCAAGTTGC	TATTTCAAAG	8580
ATTTGTCAAG	ATAGCGAAAC	ATTTACAGAG	ATTATGATTG	CTAGCCGTAC	CAAGTCAAAA	8640
TGCGATGACT	TGAAAGCGAA	GCTAGAAGGC	AAAACAAGTA	CTAAAATTGA	AACTGCAGCA	8700
CTTGATGCTG	ACAAGGTTGA	AGAAGTGATT	GCCCTGATTG	AAAGCTACAA	ACCAGAAGCT	8760
GTTTTGAATG	TAGCTCTGCC	TTATCAAGAT	TTAACCATTA	TGGATGCTTG	TTTGGCAACA	8820
GGTGTTCACT	ATATCGATAC	AGCCAACTAC	GAAGCAGAAG	ACACAGAAGA	CCCTGAGTGG	8880
CGTGCTATCT	ACGAAAAACG	TTGTAAGGAA	CTTGGTTTTA	CAGCCTACTT	TGACTACTCA	8940
TGGCAGTGGG	CTTATCAAGA	GAAATTCAAA	GAAGCAGGCT	TGACTGCTCT	TCTTGGTTCT	9000
GGTTTTGACC	CAGGTGTAAC	TAGTGTCTTT	TCAGCTTATG	CCCTCAAACA	CTATTTTGAT	9060
GAAATCCATT	ATATCGACAT	TTTAGACTGT	AATGGCGGTG	ACCACGGTTA	TCCATTTGCA	9120
ACCAACTTTA	ATCCAGAAAT	TAATCTCCGT	GAGGTTTCTG	CGCCAGGTTC	TTACTGGGAA	9180
GATGGGAAAT	GGGTCGAAGT	CGAAGCTATG	TCTATCAAGC	GTGAGTATGA	TTTCCCTCAA	9240
GTTGGACAAA	AAGATATGTA	TCTCCTTCAC	CATGAAGAAA	TCGAATCATT	GGCCAAGAAC	9300
GTTGGACAAA	AAGATATGTA	TCTCCTTCAC	CATGAAGAAA	TCGAATCATT	GGCCAAGAAC	93

ATTCCAGGTG	TCAAACGCAT	TCGTTTCTTT	ATGACTTTTG	GTCAATCTTA	CTTGACGCAC	9360
ATGAAATGTC	TTGAAAATGT	TGGACTCCTT	CGTACGGATA	CCATTAACTT	TAACGGCCAA	9420
GAAATTGTTC	CAATTCAATT	TTTGAAAGCC	TTGCTTCCAG	ATCCTGCCAG	TCTTGGGCCA	9480
CGTACAGTCG	GAAAAACCAA	TATTGGATGT	ATCTTTACAG	GTGTCAAAGA	CGGTGTCAAA	9540
AAGACTATCT	ATATCTACAA	TGTCTGCGAC	CATCAGGAAT	GTTACGCAGA	GGTTGGTTCG	9600
CAAGCTATTT	CTTATACGAC	AGGAGTTCCA	GCCATGATTG	GGACAAAATT	AGTCATGAAC	9660
GGAACTTGGA	AACAAGCTGG	AGTGTATAAC	CTTGAGGAGT	TAGATCCAGA	TCCATTCATG	9720
GAAGCTTTGA	ATGAGTATGG	TTTGCCATGG	GTTGTGGTTG	AAAATCCACA	AATGGTGGAC	9780
TAATGAAGTT	AGAACAAGTA	CCAACACCAG	CCTATGTTAT	TGACTTGGCC	AAGTTAGAAG	9840
CTAATTGCCG	CATTCTACAA	TATGTACAAG	AAGAGGCCGG	TTGCAAGGTC	TTGCTTGCCC	9900
AGAAGGCATA	TTCCCTCTAC	AAAACTTATC	CCTTGATTAG	CCAGTATCTA	TCAGGTACGA	9960
CAGCTAGTGG	ACTCTATGAG	GCCAAATTGG	CAAGGGAAGA	ATTTCCTGGT	GAAGTCCATG	10020
TATTTGCGCC	TGCTTTCAAG	GATGCAGACT	TGGAGGAATT	GCTAGAGATA	ATGGACCATA	10080
TAGTCTTTAA	CTCAGAGAGA	CAGTTGCGTA	AACACGGTCC	GCGTTGTCGA	GAGGCTGGTG	10140
TCAGTGTTGG	TTTGCGCCTC	AACCCTCAGT	GTTCAACTCA	AGGCAGATCA	CGCGCTCTAT	10200
GACCCTTGTG	CACCAGGTTC	TCGCTTTGGA	GTTACTATAG	ACAAGATTCC	GAGTGATTTG	10260
CTAGATTTGG	TTGACGGACT	TCATTTTCAT	ACCCTTTGCG	AGCAGGGAGC	AGATGATTTA	10320
CAAACAACTT	TGAAAGCAGT	AGAAGAACAG	TTTGGTCCCT	ACTTACATGA	GGTAAAATGG	10380
CTCAATATGG	GTGGTGGTCA	TCATATTACA	AGAGAAGGTT	ACGATGTGGA	TTTGCTGATT	10440
TCAGAAATCA	AGCGTATCCG	AAAAACTTAC	AATCTTGAAA	TCTATATCGA	GCCTGGTGAA	10500
GCCATTGCGC	TTAATGCGGG	TTATTTAGCA	ACTGAGGTAT	TAGATATTGT	AGAAAACGGT	10560
ATGGAAATCT	TGGTTTTAGA	CGCCTCTGCG	ACCTGCCATA	TGCCTGATGT	ACTTGAGATG	10620
CCCTATCGTC	CACCTTTGAG	AAATGGCTTT	GAGTCACAGG	AAAAAGCCCA	TACCTACAGA	10680
CTTTCTTCTA	ATACCTGTCT	GACGGGCGAT	GTGATTGGTG	ATTATAGTTT	TGAAAATCCA	10740
GTCCAAATCG	GAGACAGACT	TTATTTTCAA	GACATGGCCA	TTTATTCTTT	TGTCAAAAAT	10800
AATACCTTTA	ATGGTATTGG	ATTGCCAAGT	CTCTATCTCA	TGGACGAACA	GGGAGACTGT	10860
AGCTTACTCA	AAGCTTTTGG	CTATCAAGAC	TTTAAAGGGA	GATTATCATG	ATGGACAGTC	10920
CAAAAAAATT	AGGCTATCAC	ATGCCAGCAG	AGTACGAACC	CCATCATGGT	ACCCTCATGA	10980
TATGGCCGAC	TCGACCAGGA	TCATGGCCTT	TTCAAGGAAA	GGCTGCTAAA	AGAGCATTTA	11040

600 CTCAGATTAT CGAGACCATA GCAGAAGGGG AAAGAGTCTA TCTTTTGGTG GAGCAGGCCT 11100 ATCTATCTGA AGCCCAATCC TATCTTGGAG ACAAGGTTGT TTATTTAGAC ATTCCCACCA 11160 ATGATGCCTG GGCGCGTGAT ACTGGCCCAA CCATTCTCGT CAATGATAAA GGTAAGAAAT 11220 TAGCCGTGGA TTGGGCCTTC AATGCTTGGG GAGGCACCTA TGATGGTCTT TATCAAGATT 11280 ATGAAGAGGA TGACCAAGTA GCCAGTCGTT TTGCTGAGGC CTTGGAAAGG CCTGTCTATG 11340 ATGCTAAACC TTTTGTACTG GAAGGAGGCG CAATCCATAG CGATGGTCAA GGAACTATTC 11400 TCGTAACTGA AAGTTGCTTG CTTAGTCCTG GTCGCAATCC TAACTTGACT AAAGAGGAGA 11460 TTGAAAACAC ATTATTAGAA AGTCTTGGTG CTGAAAAAGT TATTTGGCTT CCTTATGGTA 11520 TTTATCAGGA TGAAACCAAT GAACACGTCG ATAATGTTGC TGCCTTTGTT GGTCCTGCTG 11580 AGCTTGTTTT GGCTTGGACA GATGACGAAA ATGATCCCCA GTATGCCATG TCAAAAGCAG 11640 ATCTCGAACT CTTAGAACAG GAAACAGATG CAAAAGGTTG TCACTTCACC ATTCATAAAT 11700 TGCCTATCCC TGCAGTTCGA CAAGTTGTGA CAGAAGAAGA TTTGCCAGGC TACATCTATG 11760 AAGAAGGAGA AGAAAAGCGA TACGCAGGTG AACGACTAGC AGCTTCCTAC GTAAACTTTT 11820 ATATCGCCAA CAAGGCTGTC TTGGTTCCAC AGTTTGAGGA TGTAAACGAC CAAGTGGCCT 11880 TAGATATCCT CAGCAAGTGT TTCCCAGACC GTAAAGTTGT CGGAATACCA GCCAGAGATA 11940 TTCTCTTAGG TGGTGGCAAT ATCCACTGTA TCACCCAACA AATTCCAGAA TAGGAGAAAA 12000 AGATGAGAAA TGTAAGAGTT GCAACCATTC AGATGCAATG CGCTAAGGAT GTGGCAACAA 12060 ATATCCAAAC CGCAGAGCGT TTAGTACGTC AGGCTGCTGA GCAAGGAGCC CAAATTATTC 12120 TCTTGCCCGA GTTGTTTGAA CATCCCTATT TCTGTCAGGA ACGTCAGTAT GACTACTACC 12180 AGTATGCCCA ATCTGTAGCG GAAAATACTG CCATTCAGCA TTTTAAGGTG ATTGCTAAGG 12240 AACTACAAGT TGTTTTACCA ATCAGTTTCT ATGAAAAAGA TGGTAATGTC TTGTATAACT 12300 CTATTGCCGT CATTGATGCA GATGGGGAAG TGCTGGGCGT TTATCGAAAG ACCCATATAC 12360 CAGATGACCA TTATTATCAA GAAAAATTCT ATTTCACGCC TGGTAACACT GGTTTCAAGG 12420 TCTGGAATAC TCGCTATGCT AAGATTGGTA TCGGTATCTG TTGGGATCAA TGGTTCCCTG 12480 AAACAGCGCG CTGTCTTGCA TTGAATGGTG CTGAATTGCT CTTTTATCCT ACAGCTATCG 12540 GTTCAGAGCC AATTTTGGAT ACAGATAGTT GTGGTCACTG GCAACGTACT ATGCAAGGGC 12600 ACGCAGCAGC GAATATTGTT CCAGTCATCG CAGCCAATCG TTATGGTTTA GAGGAGGTTA 12660 CTCCTAGTGA GGAAAATGGC GGACAGAGCT CCAGTCTTGA CTTCTACGGT TCCTCCTTTA 12720 TGACGGATGA AACAGGAGCT ATTCTAGAAC GAGCTGAAAG ACAAGAAGAA GCTGTTCTGT 12780 TAGCTACTTA TGACCTAGAC AAGGGAGCAA GTGAACGCCT AAACTGGGGC TTGTTTCGAG 12840

ATAGAAGACC	AGAAATGTAT	AGACAAATTA	CAGATTAGTG	TGGGAGAAAT	GAGAGATTCA	12900
TTCTGCTAGA	CTAACTTCTT	ATTAGTAACT	ATAAGATACT	ATGGCATCTA	GTAAATCGAT	12960
TTTTATGATT	CGCTATTCTT	GTCTATTGAT	TAGTCCGTAT	TTTAAAATAT	TAGCAAAAA	13020
GCAAATAGCA	GTAACTTCTG	TCTATTTGCT	TTTCTTTTT	ATAGAATATA	TTTCTCAATA	13080
GCACGCGCAA	CGCCGTCTTC	TTCGTTGCTT	GAGGTAACGG	CATCCGCAAG	AGATTTGATA	13140
TAATCGCTGG	CATTTCCCAT	TGCAATCCCA	AGCCCTGCAA	ACTGGAGCAT	TTCGATATCG	13200
TTATTAGCAT	CGCCCATGGC	CATAATCTCT	GAGGAATCAA	TCTTCAAAAT	CTCAGCTAGT	13260
CGTGAAAGAG	CAGTAGCCTT	TGTCGTTCCA	AGCGGCATTG	CTTCATAAAT	GACAGGCTGC	13320
GAACGAACTC	CACTGAATCG	TTGGCAAAGC	TCTTCAGCAA	AACGCTGCTC	AAAATCGTCT	13380
GTTTGTTCTT	TTGTTCCTAA	ACACATACCT	TGGAACATCC	GGAACTTTCC	ACTAGTCGCT	13440
TCTTCAAGAG	AAATTTCAGT	CAGGTCTGAA	AATACTAGTT	TAGCATCATT	TTCAATAACT	13500
TGATTGGGCT	TGTCACCGAG	AACAAAATAA	TGTGACTCGT	CAAAAAGTGT	CAACTGAACA	13560
TCACTCTTTT	CAGCAAGGTC	ATAGAGGTAT	TCGATGTCAG	CTGGACTCAG	TTCTTTCCAG	13620
TCAACTAGAC	TCCAATCACT	GGTCTGGTGA	GTTGAACAAC	CGTTGTTAAC	TATATATAT	13680
TCGTTCTGGA	GGTCAAGCTC	CAGTTTTTTG	TAGTAGGGGA	GGACACCGAA	AAGGGGGCGA	13740
CCCGTACAGA	GAACCAGTTT	GACACCTTTT	TCAATGGCTT	TGTGAATAGC	AGTAATGTGT	13800
GCTTGTGGGA	TTTCCTTGGC	TTCATTGAGG	AGGGTGCCGT	CCATATCCAA	GGCTAGTAGT	13860
TTAATCATAG	GTCTTCCTCT	TTATCTTTGC	TATTATTATA	GCATATTTTG	GAGAAGAAAT	13920
TGATAGAAAG	CTTGAGACTA	ATTGATTTTA	TAGTTTAAGA	TGTTTTGATG	ACAATTCATG	13980
ATTTGAAGAG	GATATTTCGC	AAAGATATGC	TATACTATGT	TTGTCAATGT	TGCAACTAGA	14040
CAAATTAAAA	AACCAACTTA	ATATAATAGT	TTTTTTGTAA	GTAGGTATGA	GTAGCAGATT	14100
ACTCAACTAA	TCTGAAGAAT	AATGGAGGAA	ATATATCATG	ATTTTAATGA	САААААТАТ	14160
AAATCTAACA	AATGAAGAAT	TAGAGCTGAT	ACAAGGTGGA	GCAGATCCAT	ATGGTAAAAA	14220
TCCTAATGGT	AGGTACGATT	GGGAAATAGA	ACCAGTATTA	ACTCTGCTGG	TTCATGGATT	14280
TTGTCCCAGA	GGCACCTATG	ATTCAGGATA	TATTGGAGGA	GGTAATCATC	TTTGCAAAGG	14340
AAGTGCTGCG	AGATTTTAAG	TAAAATTTAT	TAGGAATATG	AAGAAACAAG	GGGAGAAAAC	14400
AGAGGATTTA	ATATGAAAAA	ACGAGCTATT	CAAATTTTAC	TAGCATTGTC	CTTAATTTTT	14460
TACAAATCAA	CTTGGTTTTG	GAGGCTTTTC	AATTATCTCG	CAAAGCCCTA	TCTACCAGCA	14520
AGTCGTGAAT	TTTTTCAGAT	TCTGCTTTTG	ATGGAGAGCG	GAGTTCTTTT	CTTAGCGGTC	14580

602

ATCTATCTAC	TGGTTTTTGC	AGGAAAGAAA	ATTTTTCATT	TCAAGTGGCA	GCTGAGGTAC	14640
TTCATCTACC	TTTTACTGGG	CTACATCATT	TCATATATGT	CTGACTTCCT	CTTTTCGTAT	14700
TTCATATCCC	TGTCTTCAAA	TCAGATTTCT	TTGAATGAAA	CGGTAGAAAT	GATGGGGAGA	14760
CAGGAGTTCC	CTTATGTCTT	GCTCATCGTT	TGCTTCATCG	CCCCTATTGC	TGAGGAATTG	14820
ATTTATCGAG	GtGTGCTTAT	GACAACCTGT	TGCAAAAACT	CACCTTGGTA	CG	14872

(2) INFORMATION FOR SEQ ID NO: 73:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10223 base pairs

- (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 73:

CGTGCTATCG GTCTCAAAAC CAA	ATCTGGTC GCTATGGTCA	AATCCAGTTG	GAAAATCCAT	60
TCTTCTTGGA GCCATCTGCT GGA	ATTGCCAT CATCCTCACC	ACTCTTGGTA	TGCAGACCCT	120
TATCGGCATT TTCTAATACT CTT	CCGAAAAT CTCTTCAAAC	CACGTCAACG	TCGCCTTGCC	180
GTAGGTATAT GTTACTGACT TCC	GTCAGTTC TATCTGCAAC	CTCAAAACGG	TGTTTGAGCT	240
GACTTCGTCA GTTCTATCTG CAR	ACCTCAAA ACGGTGTTTT	GAGCTGACTT	CGTCAGTCGT	300
ATCTACAACC TCAAAACAGT GTT	TTTGAGCT GACTTCGTCA	GTTCTATCTG	CAACCTCAAA	360
ACAGTGTTTT GAGCAGCCCG TGC	GCTAGTTT CCTAGTTTGC	TCTTTGATTT	TCATTGAGTA	420
TAACACAAAA GGTAGCCCAT CAC	GCTACCTT TTTCTTATGC	TTCCTCAATC	AAGCGAGTAT	480
GTTCTCTTT GATACAGCGA TTC	CATCACGA TATCATCACA	TCCACCATCA	CGCAAAATCT	540
CTTTCGCTTC TAAACTTTCA AGT	PCCTAGCT GTGCCCAAAA	AATCTTGGCA	TCAGCTTTGA	600
GAAAATCACG CGCCACATCG GGC	CAGAAATT CACTGCGACG	ATAAACATTG	ACAATATCTA	660
CAGGAAAAGG AATTTCAGCG AGC	GCTAGCAT AAGCCTTTTC	ACCCAAGATT	TCGCCACCTG	720
CCGCCTTGGG ATTGACTGGG ATC	GATTTTAT AGCCCCGAGC	CTGCATTTCC	TTTGTTACTC	780
GATTGCTGGT TGTTTCTTCA CGC	GTCAGACA AACCCACCAC	AGCAAGGGTT	TTACTCGTTG	840
CGAGATACTG ACGAATCACG CCA	ATCACTTG GATTGATAAA	TTCTTGACTC	ATAGAAATCC	900
TCCTTTTTCA TCAGTATAGC ACA	ATTTTGAA AAGGTTTGCA	GAATTATACT	ACAAAAAAGG	960
AGGACTAGCC CCCTTTTTAT TTA	AGCCTCGT ACCAGGTTGC	CCCTTCATTC	TCATCTGCGA	1020
TAAGAGGAAC ACTGAGTTGA ATC	GCTTCTT CCATGGTTTG	TTTCACCAAT	TTTTTCATCT	1080
CTACCAATTC AGATTTAGGC ACT	TTCAAGGA CGATTTCATC	GTGCACTTGT	AACAGCATCT	1140

TAG	GTCTGATA	ACCACCTGCA	ACCAAGGCTT	TATCCAGCTG	AATCATGGCA	ATCTTGAGAA	1200
TAT	TCTGCTGC	CGAACCCTGG	ATAGGTGAGT	TGATAGCAGT	TCGCTCCGCA	AAACCACGAA	1260
TAT	PTGAAGTT	GCGCGAATTG	ATATCTGGCA	ACTCACGGCG	ACGCTTAAAG	AGGGTCTCTA	1320
CA'	PAGCCCTT	ATCACGCGCC	TCCCGCACCA	CTTCATCCAT	GTAGTTTTTA	ATACCTGGAA	1380
AAC	CGTTCAAA	GTAGGTATCA	ATGTAGGCTT	TGGCTTCCTT	ACGACTAATT	CCCAAATTAT	1440
TAC	GACAAGCC	AAAGTCTGAA	ATCCCATAAA	CCACTCCAAA	GTTAACTGCC	TTGGCATTGC	1500
GAC	CGGTCGTT	TGCAGTCACA	TCATCAGGAC	GCTCAATGCC	AAAGACCCGC	ATGGCTGTCG	1560
AAC	GTATGGAT	ATCTGCCCCC	TCTTGGAAGG	CCTTAATCAA	GTGCTCATCC	TTAGAAATAT	1620
GCC	GCCAAAAC	GCGCAATTCA	ATCTGTGAAT	AGTCAGAGCT	GAGTAGCACA	CTATCCTCCC	1680
ACI	rctggcac	AAAAGCCTTC	CGAATCAAGC	GCCCCTGTTC	CAATCGGGCA	GGAATATTTT	1740
GCI	AAGTTTGG	ATCCACACTA	GACAAACGCC	CGGTCTGGGT	CAAATCCTGC	ACATAGCGAG	1800
TAT	rgaatctt	TCCATCAGCC	AAAATCCAGT	CCTGCAAGCC	AATTACATAA	GTAGATTGAA	1860
TCT	TTAGCAAT	TTGACGGTAA	TCCAGGATTT	TCTTAACAAT	CGGAGCAATA	GGAGCGAGAC	1920
GCT	CTAAAAC	ATCCACTGCT	GTCGAATAAC	CTGTCTTGGT	TTTCTTAGTG	TATTCTAGAG	1980
GAA	AGTCCCAA	TTTCTCAAAG	AGAAGCACGC	CCAACTGCTT	AGGCGAGTTG	ACATTAAACT	2040
CCI	CACCAGC	CAGCTCGTAA	ATCTCTTGAG	TCAGTTTTTC	AATGACAAGC	TCATTTTCAG	2100
CCI	rgcatctc	AAGCAAGGTC	TCTTTCTTGA	CCATAATCCC	AGCAATTTCC	ATCTTGGCAA	2160
GGA	ACAAAAGC	CAGAGGTTGC	TCCATATCAT	AAAGAAGCTC	TAATTGCCCA	TTTTCGCTGA	2220
GTI	TTTTCAAG	TAAAATAGGC	TCTGTTTCTA	CCAAAACAGC	AAGTTTACAA	GCTAAGTGTT	2280
CCA	\AGAATTT	CTCACGTTCA	GGAATGGCCT	TTTTAACACC	CTTACCGTAG	AAAGTTTCAT	2340
CAI	CAACCAA	GTAAGTCTGA	CCATAAAGAC	TAGCGATGGT	CGCAATTTCA	TTGTCCTCCA	2400
CAG	GTCGAAAG	GAGGTATTTA	GCCAAACGGA	TGTCAAAAGC	AGGCGCCTGC	AAATCCACAC	2460
CAA	AAACGTTG	CAAAAGAACT	TTAACCTTCT	TAAAGTCATA	AACTCTCAGA	GATGTTTTTT	2520
CTA	AGAAATC	CTTGAAAATC	GGGTCTTGCA	ACAGCTCAAG	CTTGTCTGTG	GCATAGAGCT	2580
TAT	CCCCACA	AGACCAGACA	AATCCAACCA	AATTATCCGT	ATGGTAATTC	TCACCAAAAA	2640
GCI	CAAAGTG	GAAGATAGAC	TCTTCACTCA	GCATATCTTG	ACTGATTTGG	TCAACAATAG	2700
TAA	AATCCAA	ACTCTCAGAC	ACATCAGCTG	ACGACACATT	TAAAGCCTGC	TTTAGCTGTT	2760
TGA	AGCCCAT	CTCATCGTAG	AATTTCCCAA	GATTTTCAAC	ATCTGGACCA	CTATAGACCA	2820
AGT	CCTCTAA	ACCAATCGCA	ATCGGTGCCT	TGGTATCAAT	GGTCGCTAGT	GTTTTAGACA	2880

AAAAGGCCTG	TTCCTTGTCA	TTGATGAGAT	604 TTTCCTTCAT	CTTAGAAGTC	TTCATTCCAT	2940
CAATATTTTC	ATAAATCCCC	TCAAGCGAAC	CATGCTCCAG	CAAGAGCTTA	ATACCCGTCT	3000
TTTCACCGAC	TTTGGTCACC	CCAGGGATAT	TATCCGACTT	ATCACCCATG	AGCGCCTTGA	3060
GATCGATAAA	CTGAGCTGGT	GTGAGGCCCA	TTTCTTCCAT	GAGGTAATCT	GGCGTAAAGG	3120
CCTCAAACTC	AGCCACACCT	TTCTTGGAAA	TTTCAACCAC	CGTATGCTCA	TCCGTCAGCT	3180
GAATCAAATC	CTTGTCCCCA	CTGACAATAG	ТААТАТСААА	ACCATCCTGC	TCTGCTAGCT	3240
TATCCAGCGT	CCCAATGATG	TCATCCGCCT	CATACTGAGC	CAGATCATAG	TGACGAATCC	3300
CCATATGATC	CAGCAACTCA	CGAATGAAAG	GAAATTGCTC	ACGAAACTCA	TCAGGAGTCT	3360
TGGCCCGACC	ACCCTTATAG	TCCGCATACA	TCTCTGTCCG	GAAGGTCGTC	TTTCCCGCAT	3420
CAAAAGCCAC	CAAAATATGA	CTCGGCTCAA	CCCGCTCCAA	TAAATGACTC	AACATCAACT	3480
GAAAACCATA	AATCGCATTG	GTATGCAAAC	CAGCCACATT	CTTAAAACGG	TCCAACTGCT	3540
GATACAGCGC	AAAAAACGCC	CGAAAAGCTA	CAGAAGACCC	ATCAATCAAT	AATAATTTTT	3600
TCTTATCCAT	ACACCCATTA	TAAAGGAAAG	AATCAAAAAA	TACCATTGGG	AAGAGCTAGA	3660
GCAAGTATTT	TTCAAACTTT	TTCCGAATAA	ATAGATAGAG	CCAGAGAATT	TAGTAAACCT	3720
AGATTTAAAA	ATGTGCTATA	ATATAGTATA	TTGAATCTAT	AATAGTACAC	CTTGACTGCT	3780
AAAATATTTC	TATAAATTAA	TTTGACTTTC	CTGATAGAGT	TATTCACATC	TTATTTCAAC	3840
TCACTATAGA	AGGAGGAATA	GGAGGATTCT	CAGACATCCG	GGCATCAGCC	CAACTAATGA	3900
TTTGATTGCT	AAGAAAATAT	TCAGCAATCC	AGAAATCACT	TGTCAATTTA	TTCGCGATAT	3960
GCTGGACTTG	CCAGCAAAAA	ATGTGACCAT	TTTGGAGGGA	AGCGATATTC	ACGTATTACT	4020
CTCCATGCCT	TACTCGGTGC	AGGATTTTTA	TACCAGTATA	GACGTCTTGG	CGGAGTTGGA	4080
TAACGGTACT	CAAGTAATTA	TTGAGATTCA	AGTCCATCAT	CAGAATTTTT	TCATCAATCA	4140
CTTGTGGGCT	TACCTGTGCA	GTCAGGTTAA	TCAAAATCTT	GAAAAAATTC	GTCAGCGAGA	4200
AGGTGATACT	CACTAGAGCT	ACAAACACAT	CGCTCCTGTT	TACGCCATTG	CTATCGTGGA	4260
TAGTAATTAT	TTCTCAGATG	ACCTGGCTTT	TCATAGCTTT	AGTATGCGCG	AAGACACAAC	4320
AGGTGAGGTA	TTGGCGATTA	CCAACAATGG	ACAGGAAAAC	CATCTGGTTA	AGATGGCATT	4380
CTTGGAATTA	AAAAATACAG	AGAAACCAGC	AAAGACAAGG	TTCGCAAGCC	ATGGTTGGAG	4440
TTTTTCGGCA	ACAAGCCCTT	TACCCAGCAA	CCGCAACGAG	CCATTACCCA	AGCAAATCAA	4500
CTGCTGGACT	ACAAGAGCTG	GTCCGAGGAG	GACAGGAAAA	TGTTTAGTCA	ACTACATATG	4560
CGAGAAGAAC	AAGTCTTGTT	AGCACAGGAC	TATGCCTTGG	AAACTGCTAG	GGCTGAAGGC	4620
CTTGAACAAG	GACTAGAGCG	TGGGAAAGTT	GAAGGAAGGG	CAGAAAGGAA	ACTTTTTGCC	4680

TTCCTAGACA	TAGTACGCCA	AGGTCTTCTG	ACTTCTGAGG	TTGCCAGCCA	GCAATTAGGT	4740
ATGTCAGTAT	CTGAATTTGA	GGCACTGTTG	TAAAATGGCT	CCATAATATC	CATAGTGGGT	4800
AAATCCCCTA	TGGATATTAT	GGAGCCTATT	TTGTGTAGAA	AAAAAGTCCC	ATATGACCTA	4860
TAATGAAAAG	CGACAAAACA	ACTCATTAGA	AAGAATCATA	TGGAACAATT	ACATTTTATC	4920
ACAAAATTAC	TAGACATTAA	AGACCCTAAT	GTCCAGATTT	TAAACATCAT	CAATAAGGAT	4980
ACACACAAGG	AAATCATCGC	CAAACTGGAC	TACGACGCCC	CATCTTGCCC	TGAGTGCGGA	5040
AACCAATTGA	AGAAATATGA	CTTTCAAAAA	CCTTCTAAAA	TTCCTTATCT	TGAAACGACT	5100
GGTATGCCTA	CAAGAATTCT	CCTTAGAAAG	CGTCGATTCA	AGTGCTATCA	CTGTTCAAAA	5160
ATGATGGTCG	CTGAAACTTC	TGATGACGTA	CAGTCATATT	TCTTCTCTTT	TTATTATATC	5220
ACAGTTTTAA	ATCTAGCTTT	ACTAGATTCA	CCGCTACTAT	CTATTTATTC	GGAAAAAGA	5280
CGAAAAAACC	TGAGAATCAT	CTCAGGCTTG	GTCATTAAAT	TTTTTTCTCA	ATATCGAAAA	5340
GTGGAGAAAG	TGGTCGTTTT	TCATGAATAC	GTACGATAGC	ATCCCCTAGG	AGATGAGCGA	5400
TTGAAATCTG	CTCAATCTTA	TCAATCAAAC	GCTCTTCTGG	CAGATAGATG	GTATCCAAAA	5460
CAACCAATTT	CTTAATAGCT	GATTTTTGGA	TATTGTCCGT	AGCAGGACCA	GAAAGAACTG	5520
GGTGCGTACA	GCTTGCATAG	ACTTCAACAG	CACCAGCTTC	CGCAAGAGCA	TCTGCCGCAT	5580
GACAAATCGT	TCCAGCGGTA	TCAATCATAT	CATCAATCAA	GATACAAGTC	TTGCCTTCAA	5640
CCTTACCGAT	GATATTCATA	ACTTCACTAG	TATTCATCTT	ATCAACGCTA	CGACGTTTAT	5700
CAATAATAGC	GATAGATGTT	TTCAAAAATT	CTGCCAACTT	ACGAGCACGA	GTCACCCCTC	5760
CATGGTCCGG	GCTGACAACC	ACATAGTCAG	AACCAACCAT	ACCACGACGC	ТСААААТААТ	5820
CTGCAATCAG	AGGAGCACCC	ATCAAATGAT	CCACAGGAAT	ATCAAAGAAT	CCTTGAATTT	5880
GCGCAGCATG	CAAGTCGATG	GTCAATAAAC	GATCCACTCC	AGCTACTTCA	AGCATATTTG	5940
CGACAAGTTT	TGAAGTGATT	GGCTCACGCG	CTCTCGCCTT	TCTATCCTGA	CGTGCATACC	6000
CATAGTAAGG	CATGACAACA	TTGACAGATT	CTGCACTCGC	ACGCTTCAAA	GCATCTACCA	6060
ТААТСААААТ	TTCAAGCAGA	TTGTCATTTA	CAGGCGAACT	AGTTGATTGT	AAGATAAAGA	6120
CGTGTTTCCC	ACGGATTGAT	TCTTCAATGT	TGACCTGAAT	CTCTCCATCT	GAAAATTGGC	6180
GAACACTTGA	TTTCCCCAAC	TCTATCCCAA	TCTCCTGCGC	CACACGTTCT	GCCAATTCTT	6240
TATTAGAAGA	AAGGGCAAAC	AGCTTTAAAT	CAGAAAAAGA	CATGATTTCC	TCCGGTATAT	6300
ATGTATAACT	TGTGCTTTTC	ACAAGATTTT	CCATCTACCA	TTGTAGCGCT	TTTTGCACTA	6360
TTTTTCAATC	ААААТАААА	GAAGGGCACC	ATATTTGTAC	CCTTGCATCA	TTCTTTTGAA	6420

606 AAATATTCTA GGTCATCAAC TCATTGTGTT TCTCAACAAA GCAATAAGCA TGATAAAAAC 6480 CATAGAGAC AATAGCCGTA ACCACTGGAA TCGCTAAAGG CAACTCTGTT TCCAACTCCA 6540 CAAAAGGAGA GTTAAACAAG AAGTGAGTTC CCAAGGCTAA ACCTAGAAAA ATAAGGCCCT 6600 GTTTCTTGCC AACCTTCTGT CCTTTATAGG CTCTGTAAAG CAAGTAAACA CCTACTACAG 6660 CTAGACCTGA AAAAGTCCAG TGAGAGGCAA TTCCTGAGAT GATACGCTCT AAAATTCGCG 6720 AAATAGTAAA GTCAAAGCCC TCTGGCAAAT CCGTACGAAT ATAACCAATA TCCTTAATCA 6780 TTTGGAATCC CAAACCGGAA GCAATTCCAA GTAAAAACAA AGATTTTAAT TTTCGCACAG 6840 GAATCAAAGC CAAAACAAAA ACAAGTGACA ATAATTTCAA GGGTTCTTCT ACCAAAGGAG 6900 CCGCAATAGC ACTTTCAAAG GCATTTAAAA ATGGACTATC TGGGAAAAGA ACCCCCAGTA 6960 AATCATGGAT ATAAGTATTA GCAAAACTAG ACAACCAGCC TGAAAGGAAC ATCCCTCCCA 7020 ATAAAGACAG AATCAAAACC TTCTTTGGCA ATTCCCATTT TTCCCAATAC GGAAGAGAAA 7080 ATAAAGAGCC GGAATCATGT AAAAGAGAGC TAGAAAGATA GAAACTCCCA TTAGTCCATA 7140 TTCCGCACCT GACCTCGAAC CGTCCGTATA GTAGATGGTT TCATACTGTA AACCAATACA 7200 TAGCAATAAA ATAAAAATAA ATAAAATATT GCTTTTCTTC ATACACTTTC TTTCTAAATG 7260 AAGTATTAT AATTCTACGA CTGTCATACT TCCTGTATCA ACATTGTAAA TGGCACCAGA 7320 GATAATGACA TCGTCTGGTA TTAGGGGAGA CTCGATAAGC AGTTGCATAT CCTCGCGTAC 7380 ACTCTCTTCT ATATCTTGGA AGGGCAAGAA GTCCTGGTCT GACACATCGA CACCCAATTC 7440 TTCCTTCAAA TACTCCTGAA AAGGTTCATT TTCAAAGGTC TGAGCACCAC AGTCTGTATG 7500 ATGCAATACC ACAATTTCTC TTGTCCCCAT TTGTTGCTGG GAAATAACTA GAGAACGAAT 7560 CATATCCTCA GTCACTCGAC CACCTGCATT CCGCAAAATA TGAGCATCCC CAAGTGCCAA 7620 ACCTAGAGCT TGCGCAACGT GCAAACGTGA GTCCATACAG GTCACAATGG CTACTCTGGT 7680 TTTAGGTTTA AGTGGCAGAT TTAACTGCCC ATGTAGGGCA ACATAAGCCT GATTGGCTTG 7740 CATAAACTGT TCAAAATACG ACACGATTCC CTCCTTGAAA ATTTGATAGT CAAATATTTC 7800 TCCTATCTTA TCATTTTTAA GAGAATTTGT CACGGATTAT GCAAAGACCT TTTTCAAGAC 7860 TTCCTGAATC GTTGTCACGC CAATGACCTG AATTTCCTTA GGCAGAGTGA TTCCTGTCAA 7920 GGAATTCTTA GGTACATAAA TCTTAGTAAA GCCCAGTTTA GCAGCTTCGT TGATGCGTTG 7980 CTCAATACGA TTCACGCGCC GAATCTCTCC TGTCAAGCCC AGTTCTCCGA CAAAACATTC 8040 CTGAGGATTA GTTGGCTTGT CTTTGTAGCT CGAAGCAATA GCAACTGCAA CAGCCAAGTC 8100 AATCGCAGGT TCATCCAATT TAACACCACC AGCAGATTTG AGATAGGCAT CCTGATTTTG 8160 CAAGAGAAGC CCTGCCCGTT TTTCCAAAAC AGCCATAATC AAGCTAGCAC GGTTAAAATC 8220

AAGTCCTGTC	GTAGTACGCT	TGGCATTTCC	AAACATGGTC	GGTGTTACCA	AAGCCTGAAC	8280
CTCCGCCAAA	ATCGGACGCG	TCCCTTCCAT	GGTTACAACG	ATGGAGGAAC	CAGTCGCCCC	8340
ATCCAAACGC	TCTTCTAGGA	AAACTTGACT	CGGATTGAGT	ACCTCAACCA	AGCCGCCCGA	8400
CTGCATCTCA	AAAATCCCAA	TCTCATTAGT	GGAACCAAAA	CGATTTTTGA	CCGCTCTCAA	8460
AATACGAAAG	GTGTGGTGAC	GCTCCCCTTC	AAAGTAAAGC	ACCGTATCCA	CCATATGCTC	8520
CAACATACGA	GGCCCAGCCA	AGGTTCCTTC	TTTGGTCACA	TGACCTACGA	TAAAGATGGC	8580
AATGTTATTG	GTCTTGGCCA	ACTGCATGAG	TTCAGCGGTC	ACTTCACGCA	CCTGAGAAAC	8640
AGACCCCTGC	ACCCCTGAAA	TCTCAGGAGA	CATGATGGTC	TGGATGGAAT	CAATAATGAG	8700
AAAGTCTGGC	TGGATACGCT	CCACTTCTGC	ACGAACACTC	TGCATATTGG	TCTCTGCATA	8760
GAGATAAAAC	TCACTATCAA	TATCACCTAA	GCGCTCTGCA	CGTAGTTTAA	TCTGCTGGGC	8820
AGACTCCTCC	CCACTGACAT	AGAGAACTGT	CCCCACTTGG	GACAACTGGG	TTGAGACTTG	8880
TAGGAGAAGA	GTTGATTTCC	CAATCCCAGG	ATCCCCACCG	ATAAGGACGA	GACTTCCTGG	8940
TACCACTCCG	CCTCCAAGCA	CACGGTTGAA	TTCCTCCATC	TCCGTCTTGG	TTCGATTGAC	9000
ATTGATGGAA	GTCACCTCAG	CTAGTTTCAT	GGGCTTGGTT	TTCTCACCTG	TCAAGGACAC	9060
ACGCGCATTC	TTAACTTCGG	CAACCTCAAC	CTCTTCCACA	AAAGAAGACC	AAGACCCACA	9120
GTTGGGGCAA	CGTCCCAGAT	ATTTAGGGGA	ATTATACCCA	CAATTTTGAC	ATACAAATGT	9180
CGCTTTTTTC	TTTGCGATGA	CAAACCTCTT	TCTATATCTC	TAACTCACAC	TCAATCACTT	9240
GGCAAAAATC	AATCTTCTCA	TTTGGCACAA	ACTGGCGCAT	GAGCATTCGA	TGAGCAACAA	9300
CTACCACAGT	CTGATGTTCT	CGATACTTAG	ACATACATTC	TAGAAACCGA	GACTTCATTT	9360
CCGTAGCTGT	CTCATATTGA	ATAGGACTAT	TAGGAAGCAA	CTCCCCCTTG	TTTTCTAAAA	9420
ACAGTCTTCT	AGCTGTTTCA	AAGTTTTCTA	TTCCTGTTTT	ATAGACCTGC	CATTCATGTA	9480
ATAAAGGCTC	TACTCTTAAA	GGAAGACCCG	TAGCACAGAC	CACATACGAA	GCCGTTTCTA	9540
AAGCTCTTGT	GACTGCAGAA	GATACGATTA	TTTCAGCTGA	CGAGAGTAAA	GGATTTTTGC	9600
TCAATTTCTG	GACTTGCTGC	CGTCCCATCT	CAGACAAGGG	TGCCAAATCT	ATCCCAAATC	9660
CTATATAAGA	ACGCTCCTCT	AACTCACGGT	AATCTGGCTC	CCCATGACGT	ACAAAGATAA	9720
TCTTCATTCT	AGTGCCCTGT	CGATCCAAAT	CCACCAGTTC	GAACGCCATC	AGCTGCATCT	9780
CCATCTGCAA	TTAAGAAAGT	AGCAAAAACA	GCCTGGACAA	TACGCTCCCC	AACTTCAAGA	9840
ACAACCTCTT	GGTCTGTGAT	ATTCTTCATC	TGCGCAAAAA	TATGCCCTTC	ATTTCCAGGA	9900
TTTCCATAAT	AATCCCCATC	AATGACTCCA	ACTGAGTTAA	TTAAAACCAA	GCCCTTCTTA	9960

			608			
CGAGGATTTG	AAGAACGATC	ATAGAGGTAG	AGAACCTCAG	TCGGCTGCAT	ATAAGCCTTA	10020
ACCCCTGTCG	GAACCAAGAC	AATCTCTCCT	GGCGCAACAA	CTGTACGCAC	AGCAACCTTT	10080
AAGTCGTAAC	CAGTCGCATG	CGCTGTCTCA	CGCTTGGGCA	ATAAATTTTC	ATCTGTAAAA	10140
CTCGAAACCA	ATTCAAAACC	ACGAATTTTC	ATAATTTTCT	CTTTTCTATT	ATCATTTATT	10200
CTAGATTATT	CTATACTTAT	TTA				10223

(2) INFORMATION FOR SEQ ID NO: 74:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16535 base pairs

- (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 74:

TGGTTCTGTC	CTTATCGGCG	CCTTGTCTTG	CTTGCCATGG	CTACACCAAC	TATCTCATCC	60
GACGAAAGTA	CACCAACCAC	TAACGAACCC	AACAACAGAA	ATACAACCAC	CCTTGCCCAA	120
CCTCTTACTG	ATACAGCAGC	TGGCTCTGGT	AAGAACGAAA	GTGATATTTC	TTCACCTGGA	180
AATGCAAACG	CTTCCCTAGA	GAAAACAGAA	GAAAAACCTG	CTGCAAGCCC	AGCCGATCCA	240
GCACCACAAA	CTGGACAAGA	TCGTTCAAGT	GAGCCAACTA	CTTCTACTAG	TCCAGTAACA	300
ACTGAAACTA	AGGCAGAAGA	GCCCATCGAA	GATAACTACT	TCCGTATCCA	TGTCAAAAAA	360
CTTCCTGAAG	AAAACAAGGA	TGCTCAAGGA	CTATGGACTT	GGGACGATGT	TGAAAAACCA	420
TCTGAAAACT	GGCCAAACGG	AGCTTTGTCC	TTCAAGGATG	CCAAGAAAGA	TGACTACGGC	480
TATTACCTAG	ATGTCAAATT	AAAGGGAGAA	CAAGCCAAGA	AAATTAGCTT	CCTCATCAAC	540
AATACAGCTG	GAAAAAATCT	AACCGGCGAT	AAATCTGTAG	AAAAACTAGT	TCCAAAAATG	600
AACGAAGCTT	GGTTAGACCA	AGATTACAAG	GTTTTCTCTT	ACGAGCCACA	GCCTGCAGGA	660
ACTGTTCGCG	TCAACTACTA	CCGCACAGAT	GGCAACTATG	ACAAGAAATC	TCTCTGGTAC	720
TGGGGAGATG	TGAAAAATCC	AAGTAGCGCT	CAATGGCCTG	ACGGAACAGA	CTTTACGGCT	780
ACAGGCAAAT	ATGGCCGCTA	TATCGACATT	CCTCTTAATG	AAGCCGCAAG	AGAATTTGGA	840
TTTTTATTAC	TAGATGAGAG	CAAACAAGGA	GACGACGTGA	AAATCCGTAA	AGAAAATTAT	900
AAGTTCACAG	ATTTGAAAAA	TCATAGCCAA	ATTTTCCTAA	AAGACGATGA	TGAATCGATT	960
TACACAAATC	CATACTATGT	CCATGATATC	CGTATGACAG	GAGCCCAACA	CGTAGGCACT	1020
TCTAGCATTG	AAAGTAGCTT	TTCAACACTT	GTCGGTGCTA	AAAAAGAAGA	TATCCTCAAA	1080
CACTCCAACA	TCACTAATCA	CCTAGGAAAC	AAGGTAACTA	TTACCGATGT	TGCAATCGAT	1140

GAAGCTGGTA	AGAAAGTGAC	CTACAGCGGA	GATTTCTCTG	ACACAAAACA	TCCTTATACT	1200
GTTAGCTACA	ATTCCGACCA	ATTCACTACC	AAAACAAGCT	GGCGCCTGAA	AGATGAGACA	1260
TACAGCTATG	ATGGCAAACT	GGGAGCTGAC	CTAAAAGAAG	AAGGAAAACA	AGTTGATTTG	1320
ACCCTTTGGT	CACCAAGTGC	TGATAAGGTT	TCTGTTGTTG	TCTACGACAA	GAATGACCCT	1380
GACAAAGTAG	TTGGAACTGT	CGCTCTTGAA	AAAGGGGAAA	GAGGAACTTG	GAAACAAACT	1440
CTAGACAGCA	CAAACAAACT	CGGAATCACA	GATTTCACTG	GCTACTATTA	TCAATACCAA	1500
ATCGAGCGTC	AAGGTAAAAC	TGTTCTTGCA	CTCGATCCTT	ACGCTAAATC	TCTTGCTGCT	1560
TGGAATAGCG	ACGATTCCAA	GATTGACGAT	GCCCATAAAG	TGGCTAAAGC	CGCCTTTGTA	1620
GATCCAGCTA	AACTCGGACC	TCAAGACTTG	ACTTATGGTA	AGATTCACAA	TTTCAAGACT	1680
CGTGAAGACG	CCGTTATCTA	CGAAGCTCAT	GTGCGTGATT	TCACTTCAGA	TCCTGCCATT	1740
GCAAAAGACT	TGACCAAACC	ATTTGGGACT	TTTGAAGCCT	TCATTGAAAA	ACTAGACTAT	1800
CTCAAAGACT	TGGGTGTAAC	CCATATCCAG	CTCCTTCCAG	TCTTGTCTTA	CTACTTTGTC	1860
AATGAATTGA	AAAACCATGA	ACGCTTGTCT	GACTACGCTT	CAAGCAACAG	CAACTACAAC	1920
TGGGGATATG	ACCCTCAAAA	CTACTTCTCC	TTGACTGGTA	TGTACTCAAG	CGATCCTAAG	1980
AATCCAGAAA	AACGAATCGC	AGAATTTAAA	AACCTCATCA	ACGAAATCCA	CAAACGTGGT	2040
ATGGGAGCTA	TCCTAGATGT	CGTTTATAAC	CACACAGCCA	AAGTCGATCT	CTTTGAAGAT	2100
TTGGAACCAA	ACTACTACCA	CTTTATGGAT	GCCGATGGCA	CACCTCGAAC	TAGCTTTGGT	2160
GGTGGACGCT	TGGGGACAAC	CCACCATATG	ACCAAACGGC	TCCTAATTGA	CTCTATCAAA	2220
TACCTAGTTG	ATACCTACAA	AGTGGATGGC	TTCCGTTTCG	ATATGATGGG	AGACCATGAC	2280
GCCGCTTCTA	TCGAAGAAGC	TTACAAGGCT	GCACGCGCCC	TCAATCCAAA	CCTCATCATG	2340
CTTGGTGAAG	GTTGGAGAAC	CTATGCCGGT	GATGAAAACA	TGCCTACTAA	AGCTGCTGAC	2400
CAAGATTGGA	TGAAACATAC	CGATACTGTC	GCTGTCTTTT	CAGATGACAT	CCGTAACAAC	2460
CTCAAATCTG	GTTATCCAAA	CGAAGGTCAA	CCTGCCTTTA	TCACAGGTGG	CAAGCGTGAT	2520
GTCAACACCA	ТСТТТААААА	TCTCATTGCT	СААССААСТА	ACTTTGAAGC	TGACAGCCCT	2580
GGAGATGTCA	TCCAATACAT	CGCAGCCCAT	GATAACTTGA	CCCTCTTTGA	CATCATTGCC	2640
CAGTCTATCA	AAAAAGACCC	AAGCAAGGCT	GAGAACTATG	CTGAAATCCA	CCGTCGTTTA	2700
CGACTTGGAA	ATCTCATGGT	CTTGACAGCT	CAAGGAACTC	CATTTATCCA	CTCCGGTCAG	2760
GAATATGGAC	GTACTAAACA	ATTCCGTGAC	CCAGCCTACA	AGACTCCAGT	AGCAGAGGAT	2820
AAGGTTCCAA	ACAAATCTCA	CTTGTTGCGT	GATAAGGACG	GCAACCCATT	TGACTATCCT	2880

610 TACTTCATCC ATGACTCTTA CGATTCTAGT GATGCAGTCA ACAAGTTTGA CTGGACTAAG 2940 GCTACAGATG GTAAAGCTTA TCCTGAAAAT GTCAAGAGCC GTGACTATAT GAAAGGTTTG 3000 ATTGCCCTTC GTCAATCTAC AGATGCCTTC CGACTTAAGA GTCTTCAAGA TATCAAAGAC 3060 CGTGTCCACC TCATCACTGT CCCAGGCCAA AATGGTGTGG AAAAAGAGGA TGTAGTGATT 3120 GGCTACCAAA TCACTGCTCC AAACGGCGAT ATCTACGCAG TCTTTGTCAA TGCGGATGAA 3180 AAAGCTCGCG AATTTAATTT GGGAACTGCC TTTGCACATC TAAGAAATGC GGAAGTTTTG 3240 GCAGATGAAA ACCAAGCAGG ACCAGTCGGA ATTGCCAACC CGAAAGGACT TGAATGGACT 3300 GAAAAAGGCT TGAAATTGAA TGCCCTTACA GCTACTGTTC TTCGAGTCTC TCAAAATGGA 3360 ACTAGCCATG AGTCAACTGC AGAAGAGAAA CCAGACTCAA CCCCTTCCAA GCCTGAACAT 3420 CAAAATGAAG CTTCTCACCC TGCACATCAA GACCCAGCTC CAGAAGCTAG ACCTGATTCT 3480 ACTAAACCAG ATGCCAAAGT AGCTGATGCG GAAAATAAAC CTAGCCAAGC TACAGCTGAT 3540 TCACAAGCTG AACAACCAGC ACAAGAAGCA CAAGCATCAT CTGTAAAAGA AGCGGTTCGA 3600 AACGAATCGG TAGAAAACTC TAGCAAGGAA AATATACCTG CAACCCCAGA TAAACAAGCT 3660 GAACTTCCAA ATACAGGAAT CAAAAACGAA AACAAACTCC TATTTGCAGG AATCAGCCTC 3720 CTTGCGCTCC TTGGTCTCGG TTTCTTACTA AAAAATAAAA AAGAGAACTA AACTAGCCCT 3780 CCTATAGAAA AATCCCCCAA GCATTATAGC TCGGGGGATT AATTTTTGTA CAATATTTGT 3840 TGTCCTAATA AACTTGATTA GGATTTTTTA TTAAGCCTCT TTCATAGCAA AATAAGCTCG 3900 TACTTTGGGT GCAACTTGTG TTCCGAAGAG TTCAATAGCT CTCAGAACCT GGTCATGAGG 3960 CATAGAACCA AGCGGTAGAT GAAGCATGAA GCGGTCCAAT CCTAAATCCT CTATCATGCG 4020 AATCAATTTT TCGGCCACCT GATCTGGATT GCCAACAAAC ATGGCGCCAT TTGGCCCTAC 4080 CTGCTCCAAA TATTGCTCAT AACGCAATTC CTGCCAGTGC GGACGGTCTT TGGAAATAGC 4140 ATCCACCACT TGCTTAGTCG GATGGAAATA ATCTTTCACC GCCTGCTCAC CATCTTCCGC 4200 AATCCACCCC CAAGAATGGG CTCCCACTTT CAAGTCTTTG TCAGCATGGC CCCTTCGCTT 4260 CCAATCTCAC GATAAGCCTG AATCAACTTT TTAAAATAAC GTGGATTACC ACCAATAATA 4320 GCATATACAA TCGGTAGACC AGCCTGAGCA ATCTTCACTG TTGATTCGAC ATGACCACCT 4380 GTAGCTATCC ACAAGGGCAA TTTGTCCTGA ACTGGACGAG GATAAACTTC TTTACCAGCA 4440 ATCGTTTGAG TCAATCGACC TTGCCAGTCT AACTTGGTCT TTTCATTGAC TAACTGAAGC 4500 AAGTCTAATT TCTCATCAAA AAGAGAGTCG TAGTCTTTCA AGTCATAACC AAACAGAGGG 4560 AAAGATTCCG TGAAAGAGCC CCTTCCAGCC ATAATCTCCG ATCGTCCATT TGACAAAGCA 4620 TCGATAGTGG CATACTGTTG GAACAACGA ATCGGGTCCA TGCTTGACAG AATGCTGACT 4680

GCACTGGTCA	AACGGATTTT	CTTGGTATTG	ACTGCCCCAG	CGGCCAGAAC	AATCTCTGGG	4740
GCTGATACTG	CAAAATCCGC	CCGATGGTGC	TCACCAATCC	CATATACATC	CAAACCAACC	4800
TTGTCAGCCA	GCTCAATCTC	TGCCACCAAC	TGGCGAATGC	GTTCAGCATG	ACTGTAAGTT	4860
TGTCCAGTCC	CTTCAAGCTC	CGTTATTTCC	CCAAATGTTG	AAATTCCCAA	TTCTACCATT	4920
GTGATTCTCC	TTATCTATCT	CTGTACTTCA	ATTTGAAAAA	TTATTCTAAC	ACGAATCTTG	4980
AGTACAAGCA	ACCGATTTGC	TCATTAGAAA	AAGCCTAGAT	AACTAGACTT	TTTTAGCTTA	5040
TTCTACCGTT	ACTGACTTGG	CAAGGTTACG	TGGTTTGTCC	ACATCGAGGC	CACGGTGGAG	5100
GGTTGCAAAG	TAAGCGACTA	ATTGCGTTGG	TACGACCATT	GAAATTGGTG	AGAGGTATGG	5160
ATGTACGGTC	GTAAGGACGA	TATCGTCGGT	ATCTTTGGCT	ACATTCTCTT	CTGCGATAGT	5220
GAGGACTTTG	GCACCACGGG	CTGCGACCTC	TTGGATATTT	CCACGAGTAT	GATTGGCAAG	5280
AACTGGATCT	GACAAGAGAG	CCAAAACAGG	CGTTCCTTCT	TCAATCAAGG	CAATGGTTCC	5340
GTGCTTGAGT	TCTCCTGCAG	CAAAGCCTTC	ACACTGGATA	TAAGAAATCT	CTTTGAGTTT	5400
GAGACTTGCT	TCCATGGCTA	CGTAGTAATC	TTGACCACGT	CCGATGTAAA	AGGCGTTACG	5460
AGTTGTTTCA	AGAAGTTCAC	GAACCTTGAC	TTCAATGGTT	TCTTTCTCTG	AAAGAGTTGA	5520
TTCGATAGAC	TGAGCTACGA	TTGACAATTC	ATGAACCAGG	TCAAAGGCTT	GCGCTTTAGC	5580
ATTACCATTT	GCTTCTCCGA	CTGCTTTTGC	AAGGAAGGCA	AGGGCTGCGA	TTTGCGCTGT	5640
ATAGGCTTTA	GTTGATGCCA	CGGCAATTTC	AGGACCTGCG	TGAAGGAGCA	TGGTATAGTT	5700
GGCTTCACGT	GAGAGGGTTG	AACCTGGAAC	GTTTGTCACT	GTTAAGCTTG	GAATTCCCAT	5760
TTCATTAGCC	TTGACCAAAA	CTTGACGACT	ATCCGCTGTT	TCACCAGATT	GGCTGATAAA	5820
GATGAAGAGT	GGTTTCTTGC	TGAGAAGTGG	CATACCGTAG	CCCCACTCAG	ATGAGATTCC	5880
AAGTTCAACT	GGTGTATCTG	TCAATTCTTC	CAACATTTTC	TTAGAAGCAA	ATCCTGCATG	5940
GTAAGATGTT	CCAGCTGCAA	GGATGTAGAT	GCGGTCTGCG	TCTTGAACAG	CCTTAATGAT	6000
ATCTGGGTCT	ACGACAACTT	GACCAGCCTC	ATCTGTGTAG	GCTTGGATGA	GTTTCCGCAT	6060
AACAGTTGGT	TGCTCGTCAA	TTTCCTTGAG	CATGTAGTAA	GGGTAAGTTC	CCTTACCGAT	6120
ATCTGACAAG	TCAAGTTCAG	CAGTGTAGCT	AGCACGCTCA	CGACGATTTC	CATCATAGTC	6180
TTGAACTTCC	ACACTATCAG	CCTTGACGAT	TACCAACTCT	TGGTCATGGA	TTTCCATGTA	6240
TTGGTTAGTT	TCACGAATCA	TAGCCATGGC	GTCTGAGCAG	ACCATGTTAT	AGCCTTCTCC	6300
AAGACCAATC	AAAAGTGGTG	ATTTATTTT	AGCTACGTAG	ATGACTTCAG	GATCTTGTGA	6360
GTCAACCAAG	GCAAAGGCAT	AAGAACCACG	GATGATGTGA	AGGGCTTTTT	TGAAGGCTTC	6420

612 AAGAACTGAG AGCCCTTCTT CTTCCGCAAA TTTTCCAATC AAATGAACGG CTATTTCAGT 6480 ATCTGTCTGC CCCTTGAAGT GGTGACCTGC AAGGTATTCT TCCTTGATTT CAAGATAGTT 6540 CTCAATCACC CCATTATGCA CCAAGACAAA ACGTTCCGTC TCAGAGCGGT GTGGGTGAGC 6600 ATTGTCCTCA GTTGGTTTTC CGTGAGTAGC CCAACGAGTA TGTCCGATAC CAGTTGTTCC 6660 CTCAACACCA GCTGTCTTGG CAGACAATTC TGCAATACGA CCAACCGCCT TCACCAAATG 6720 GTTATCAGCA CCATCTAGGA CAAAAATTCC CGCAGAATCA TAGCCACGGT ATTCAAGCTT 6780 TTCAAGCCCT TGAATCAAAA TATCAGTTGC ATTTGTGTTT CCAACAACAC CAACAATTCC 6840 ACACATAGTA TATACGACAC AGGCAAGCTG TGCTTTCTCC TTAAAATTGG TATAGTCTAA 6900 TTCATCTTTT ATAGAATCAG CAAAAACAGT ATATACTTGT TTCTTTCACT TGTCAAGAGT 6960 AAAAATTGGT ATAGTTCAAA TTAAGCTCCT GTAAGCATAA AAACTCTGAC CGATTGGGAT 7020 AATCAGTCAG AGTCCTTTTT AAAATCCATT ATTATCGCTT AATTCTTTGA ACCAGTGGCC 7080 TGATTTCTTC AGACGACGTT CTTGCGTTTC CAAGTCTAAT TCGACCAAAC CATAGCGATT 7140 TTTATAGCTG TTGAGCCATG ACCAGCAGTC AATAAAGGTC CAAATCAAGT AGCCCTTACA 7200 GTTGGCACCA TCTTCAATGG CACGGTGAAG TTCACGAAGA TGACCTTTTA CAAAGTCAAT 7260 ACGGTAATCA TCTTGAATCA TTCCATCTTG ACGGAATTTT TCTTCCCCTT CAACACCCAT 7320 ACCATTCTCA GTCAACATCC ACTCAATATT GCCATAATTT TCCTTGATAT TTTGGGCGAT 7380 GTCATAAATC CCTTGCTCAT AAATCTCCCA ACCACGGTGA GAATTGATTT TACGTCCAGG 7440 CATCACATAA GGCTCGTAAA AATGTTCTGG TAAGAGTGGA CTCTCTGGAT GCTTAGCAAA 7500 TCGAGGAGCC ATAACACGCA AAGGTTGATA GTAGTTCACA CCAAGGAAGT CCACCGTATT 7560 ATCACGAATG AGTTCCAACT CTTCCTCTGT AGCATCAGGT AAAAGACCGT GTTCATGCAA 7620 GATTTCTACC AACTCCTGTG GATAAGTCCC CAAGACAGAT GGATCTAAGA AAGATTGGGC 7680 CTGAAAAAGG GCCGCAATAC GAGCTGCCTT GACATCAGCA GGATGCTGGC TACGTGGATA 7740 AGCCGGTGTC AAGTTGAGGA CAATCCCAAT CTTGGAATCA GGCAAAAGTT CATGGCAAGC 7800 CTTAACAGCC CGGCTGCTGG CCAATTGTGT ATGATAGGCT ACCTTAACAG CTGCCTCTGC 7860 ATCCACCTTA TGTGGATAAT GGGCATCATA AAAATAACCA AATTCTACAG GAACGATGGG 7920 CTCGTTAAAG GTAATCCATT GATCCACTAA ATCTCCATAA GTCTCAAAAC AAAAACGAGC 7980 ATAGTCTTCA TAGGCTGAGA CTGTCGCCTT ATTTTCCCAA CCATCACCAT CCTCTTGAAG 8040 GGCAAAAGGT AAATCAAAAT GATAGAGATT GACTAACAGA CGAATTCCTT TAGCCTTAAT 8100 AGCCTCAAAG ACCTTACGAT AAAAATCCAC ACCTTGAGTG TTGACTTTTC CACAGCCTTG 8160 TGGAAAAATC CGTGACCACT GAATAGAAGT CCGAAAGGCT GTGTGACCAG TCTCTAACAA 8220

AAGCTCAATA	TCCCGCTCCC	AATTTTCATA	AAAAGTCGAT	GTCTTATCTG	AACCAATCCC	8280
ATTATAGTAA	CGATTTGGCT	CCACTTGGAA	CCAGTAATCC	CAGAGATTGT	CTCCCTTACC	8340
GTCACCAGCT	ACACGTCCTT	CTGTCTGCGG	TCCAGAAGTA	GAGGATCCCC	AGACAAAATC	8400
CTTTGGAAAT	CTTAGCATAC	ATTTACCTCT	TTATCTACTC	ATTTCTCCCA	TTATACAGAA	8460
AAAACAAGGT	AAAAACTAGT	TACATTTTTT	CCTTGTTTTT	CTTCTGATTA	TAGTTTTTAT	8520
TTCTTGCTTA	GGATTTCAAG	CGTTTCAAGC	ACGTTATCTG	CATGAACCTC	AATGGTGTCA	8580
CCAGTTGCCT	TGATCTTAAC	TTCTACAATG	CCATCGGCCG	CTTTTTTACC	AACAGTGATA	8640
CGGATTGGAA	GACCAATCAA	GTCACTATCG	CTAAATTTAA	CACCGACACG	TTCGTTACGG	8700
TCATCTGTCA	AGACTTCATA	ACCAGCTCCC	ATCAAGCTTG	CTTCAAGTTT	TTCTGTCAAG	8760
GCTTGCGCTT	CTTCATCCTT	GACATTGACA	GTAATCAAAT	GCACATCAAA	TGGTGCCAAT	8820
TCTTTAGGGA	AATTGATTCC	CCAAGCGTAA	CGGTATTCAC	CTTTTGGCGT	TTTGTTAACA	8880
AAGAGGCGAG	CGTGTTGCTC	CATCACTGCT	GAAAGAAGAC	GGCTGACACC	GATACCGTAA	8940
CATCCCATGA	TGATTGGCAC	AGCACGACCA	TTTTCATCCA	AGACATCTGC	TCCCATGCTT	9000
GCTGAATAGC	GAGTTCCGAG	TTTGAAAATA	TGACCGATCT	CAATACCACG	CGCAAAGTTA	9060
AGGACACCTT	GTCCATCTGG	GGAAATTTCA	CCCTCACGAA	CTTCACGGAT	ATCCACATAT	9120
TCTGCAGTAA	AATCACGGCC	TGGGTTCACA	CCAGTCAAGT	GGTAGTCATC	TTCGTTAGCA	9180
CCGACAACTG	CATTGCGAAC	ATCTTGTACC	TTACGATCTG	CAATAATTTT	AATATTCTCT	9240
GGCAAACCAA	CTGGTCCAAG	TGAACCAAAT	CCTGCTTGAA	CAACATTCGC	CACTTCTTCT	9300
TCGCTAGCAA	CGTCAAAGAA	ATCTGCTCCC	AAGTGATTTT	TCAACTTGAC	TTCGTTGAGT	9360
TGGTCATTTC	CAACTAGAAG	GGCTGCAACA	AGCTCACCAT	CTGCAATGTA	GAAGAGGGTT	9420
TTAATCGTTT	GTTCTTCTGG	AACATTGAGG	AAGGCTGCAA	CTTCATCAAT	TGATTTAACA	9480
TCTGGCGTTG	CAACACGAGT	AACTTCTTCT	TCAGCGACAA	CACGGTTGCT	TGGTTTGTAC	9540
TCGTTTGTTG	CCATTTCTAA	GTTAGCTGCA	TAGCTAGACT	CACTTGAGTA	AGCAATGGTA	9600
TCTTCACCAG	AGACTATCCA	TTTGAGCAAT	TCTGCCTTGA	TTTCTTCTTG	CACTTCTGCA	9660
GGAATTTCGT	CAAATGAGGC	AACTGACTTG	TCCAAGACAA	CCCAGCGGTC	AAGGTCTGTA	9720
CGAGCAGATG	TAATGGCCAT	AAATTCTTGG	CTATCCTTAC	CACCCATGGC	TCCACCGTCA	9780
CCAATAATAG	CCTTGAAGTC	TAAACCACTA	CGAGTGAAAA	TACGCTCATA	GGCTGCTTTG	9840
TACTCATCAT	AAACACTATC	CAAACTATCA	TAGTTAGCGT	GGAAACTATA	AGCATCCTTC	9900
ATGATAAACT	CACGTGTACG	AAGAAGTCCA	TTACGCGGGC	GTTTTTCATC	ACGATACTTG	9960

GGCTGAATTT	GATAAAGGTT	GAGTGGCAAT	614 TGCTTGTAAG	ATTTAACAGA	ATCACGGACA	10020
ATAGCTGTAA	AGGTTTCTTC	GTGAGTTGGA	CCTAAGATAA	AGTCTGATTT	TTCACGGTTT	10080
TTTAGTTTGT	AAAGGTCTTC	ACCATAGGTT	TCGTAACGAC	CTGATTCACG	CCACAATTCT	10140
GCACTAAGAA	GGGCTGGAGC	CAACATCTCA	ACAGCACCAA	TCTTTTCGAA	TTCTTGGCGC	10200
ATGATGTTTT	TAGCTTTTTC	AATCACACGG	TTGGCAAGTG	GTAGATAAGA	ATAAACACCT	10260
GCTGAAACTT	GGCGAACATA	ACCAGCACGC	AACATAAGAG	CATGGCTGAT	AACTTGAGCA	10320
TCGCTTGGCA	TTTCGCGAAG	CGTTGGGATA	GGCATTTTAC	TTTGTTTCAT	AATATTCCTC	10380
GATTATCTAA	AAAAGAGTCG	CATAATGTCA	TTCCAAGTCA	CAGCAATCAT	CAAGACAACC	10440
ATGATGACCA	CTCCGGCCAA	GGTGACATAG	GTTTCAATTT	CTTGTTTCAA	TGGTTTGCGG	10500
CGGATGGCTT	CTAGGATATT	GAGCACAATC	TTACCACCAT	CCAAGGCTGG	AATCGGAATA	10560
AGATTAAAAA	TCCCAATATT	GATGGAAATC	ATTGCCAAGA	AGTACAAGAT	ATTTTCAATT	10620
CCATTTTTAG	CAGCATCACT	ACTTGCCTTA	AAGATAGCAA	CAGGTCCACC	CAACTTGTTC	10680
AAATCTGGTT	GGAAAATCAG	ATTTTTCAGA	GCTGAGAGAA	TTCGGAGAGC	TGAGTCAGCA	10740
GCAGTTGTAA	AACCACCTAC	AAACATGGAT	AGAAAATCTG	ACTTAACCCC	CGGTTGAACA	10800
CCTAGAAGGT	AACGACCTTG	ACTATCTTTG	GGTGTAACAG	TGACTTGTTT	GTCACTCCCC	10860
TTTTCAGAAA	TAGTCACATC	CAAAGTCGGT	GCCGTCTTAT	CTTTGGTTTC	TGTTTCCACA	10920
GCTTGGATCA	AGCTTTCCCA	GTTGCTAACC	TCATGTGAGC	CAATCTTGGT	AATTTGTGCC	10980
ATTTCTGGTA	CTCCTACCTT	GGCCAAGGCA	CCTTGGGGCA	TGATATGGAA	CTGATTGGTA	11040
TCAACATCTC	TGACACCACC	CTGCATAAAG	ATTAAAACCC	AAAAAACAAC	GACACCTAAG	11100
ATAAAATTGT	TCATAGGACC	TGCAAAATTG	GTAATCAGTT	TGCCCCAGAT	AGTCGCATTT	11160
TGATATTGAA	CATCTAAAGG	TGCAATCCGA	ACCTCAGTAC	CATCTGCTTC	CACAACCGTT	11220
GCATCGTGAT	CCACTGCAAA	TGTTTTTTCT	TCTTCCAGAA	CCAATCCTTT	GATAAAGAGC	11280
TTGTCTTCAA	AATCAAACTG	GGTCACCTGC	ATAGGGAGGG	CTGTTTGATC	CAATTTTTTA	11340
CCTGAGAGAT	TGATGCGTTT	AACCTTACCA	TCATCAGCAA	GTGTCAAACT	AACAGGCGTT	11400
CCTGTCTTGA	TTTCAGTTGT	ATCATCACCC	CAACCGGCCA	TGCGGACATA	GCCACCCAGA	11460
GGCAAGATTC	GAATGGTATA	GGCCGTTCCA	TCCTTGCCAA	TGTGAGCAAA	AATTTTAGGT	11520
CCCATACCGA	TGGCAAATTC	ACGTACTAAA	ATCCCTGATT	TCTTGGCAAA	GTAGAAGTGA	11580
CCGAACTCGT	GCACCACTAC	AATAATCCCG	AAAACCAGAA	TAAAGGTTAA	AATTCCGAGC	11640
ATAGCGTTTC	CTCCGTCTTT	TGATTAAAAG	AGTCCAAATA	AGTGCATGAT	TGGAAATACA	11700
AGCAACATAC	TATCGAAACG	ATCCAAAACA	CCACCATGTC	CAGGGATAAA	TTTCCCAGAA	11760

TCCTTAACAC	CAAAATGACG	TTTGATCGAA	CTTTCTAGTA	AATCACCAAA	TTGTCCAGCA	11820
ATGCTAAAGA	AAATAGCAAA	GACTGACATC	TTGTAAATTC	CATATGGAAG	AGCAACTGTA	11880
CTGTCAACTA	TCATAAGGAT	AATGGTTACT	AAAATTGCTC	CTAAAATACC	ACCCAAGGCA	11940
CCCTCAAGGG	TTTTATTAGG	CGATACCCTT	GGTGCTAACT	TTCGTTTCCC	ATAGTTCATC	12000
CCAACAAGAT	AGGCACCACT	GTCTGTCGCC	CAGACGATAC	ACAAGGCTAA	GAGAGCCTTG	12060
TCCAAACCTG	CAACACGAGC	ATCTAGTAAA	GCATTAAATC	CAAAGCCCAC	GTAGAAGCTC	12120
ATAGCAAGAG	GGAAAACCGC	ATCCTCAATC	GTATAAGACT	TGCTAAAAAC	GGTCGTTCCT	12180
AACATGATTG	AAATCAAAAC	ACTATAGGCA	ACCACATTCC	CATCAACTGG	CAAAAAAGTC	12240
AGGTAATTCT	CCAAGGGAAT	GGTCAATGCA	AAGGTTGCAA	AGAGGGTCAA	GAGGCCCTCC	12300
ATCGTCATGG	TCTCTAGACC	TCTCATCTTC	AAAAGTTCAT	GCATGGCTAG	CATGGCTATG	12360
ATTCCGATTG	CTATCTGAAG	CAAGAGGCCC	CCAATCATTA	AAATTGGTAG	GAAAATAGCC	12420
AGGGCAATCC	CTGCAAACAA	GGTTCTTTTC	TGTAAATCCT	GGGTCATATT	TCCTCCTAAA	12480
CTCCTCCAAA	TCGGCGATGA	CGACGATTAT	AGGCAAGAAT	AGCTTCCTGC	AAGGCCGCTT	12540
CGTCAAAATC	AGGCCATAAG	GTGTCCGTAA	AATAAAGCTC	ACTATAGGCT	CCCTGCCATG	12600
GAAGGAAATT	GCTCAAACGT	AATTCTCCAC	TAGTACGGAT	AATCAAGTCT	GGGTCTCGTA	12660
AGTCCTTAGG	CAAATGCTGA	GTAAAGAGAT	AGTTACCAAT	CAATTCCTCT	GTGATGTCAC	12720
CTGGGTTGAT	TTTGGCATCT	AAAACATCCT	GGGAAATCAA	CTTAAGCGCC	TGTGTAATCT	12780
CAGCACGTCC	ACCATAGTTA	AGAGCAAAAT	TAAGAATCAA	TCCTGTGTTG	TTCTTAGTCA	12840
ATTCCTCAGC	CTTGGTTAAA	GCTTCAAAGG	TTTGCTTAGG	CAGGCGGTCT	GTCTCCCCAA	12900
TCATTTGAAT	CTTAACATTA	TTCGCATGTA	GTTCCGGGAC	ATAATTATCA	TAAAACTCTA	12960
CTGGCAAGTT	CATGATAAAC	TTGACTTCCT	GATCTGGACG	GGTCCAGTTT	TCCGTAGAAA	13020
AAGCATAGAC	CGTAATAACC	TTGACGCCCA	GTTTGTTGGC	TGCCTTGGTC	ACGGTTTGCA	13080
ATGCTTCCAT	GCCCGCCTTA	TGTCCAAAAA	CTCGCGGTTG	CATACGTTTT	TTAGCCCAAC	13140
GGCCATTGCC	ATCCATGATG	ATGCCGATAT	GAGCAGGAAC	CTGTGTCGGA	ACCTCTACTT	13200
CCACAGCCTT	ATCTTTCTTA	AAAAATCCAA	ACATGATCTT	ATTCCTATTC	AAAAATCTAT	13260
CGTTTCATTA	TACCATATTT	CCCCATTTTC	TTCTATCACT	AAGCTATTTA	TTCTCAGGCA	13320
CCAAGCCCAT	ТТТТСААААА	AATAAGCCGC	CTGATTGGGC	GACTTTATTT	TTATAGGGAG	13380
ATTATTATGA	AAAAGTTTTA	GGAGTTTAAG	TTAAGGTCTT	CTTAACTTAT	GAACTTAGTG	13440
TACACTCCCT	AGCTTAAAGT	TTCCTTAAGT	AAAATTTTTAA	ATCAAATTTT	TCCATTTCTC	13500

616 CTGCCAATTT TTCTTGGATA AACGTGTTTG ATAGAGTTCC ATTCGGTCTT CATTTTCTAA 13560 GAAATGAGGA GTTGGACGAA CTTGAAAATT CAAAATATCC TCCAAACCAT AAGGTACATA 13620 GAGTTCAAAA TCTAATTCTT CATTCAAGCG CAGTCCAACT GCCGTACACC GTTCTGGATA 13680 CTTACTCATA GCATCACGAG AACTGGTATA GGAAGCAGTG TGAGGACTGT GCTGATGCAT 13740 ATAGACCTGA TTTTTCAATT CCCACTGGTA CTGAGGAAAA TCCTCTCTCA GCTTTTTCTC 13800 CAGTAATAAG GTTTCCTCAT AAGAAAAATC TGGATCAAAG AAAATCACAT CTATATCTGT 13860 TTCATGATCA AAAGGGGATT TGTCTGACAA AAGATTCCAG ATGAAATTTC TGACAGAACC 13920 TGCTGCCAAC CACGAGTCTT TCAAACCAAG GTCTCGGATG ATCGTCAGAA TGGCCATCAT 13980 ATCTGGACTT TCTCTAAAAG CCTCTAAGAT TTCTTGCTTA TTTTTCACTG TATTCATAAC 14040 CTAAGTGCTC ATATGCCTTA GCAGTCGCCA CCCGTCCAGA CCGTGTCCGC ATGATAAAAC 14100 CTTTTTGAAT CAAGTAAGGC TCATACATGT CTTCAACTGT CTCACGCTCT TCGGCGATAT 14160 TCACAGAAAG AGTTCCTAGA CCAACAGGTC CTCCACTGTA CATCTCAATC ATGGTGCGAA 14220 GGATTTTTTG ATCCACATAG TCCAAACCTT CATGGTCAAC ATCCAGCATA GTCAAAGCCT 14280 TATCGGTAAT AACATCATCG ATAACCCCAT TCCCCATTAT CTGGGCAAAA TCGCGCACGC 14340 GCTTGAGGAG ACGATTGGCA ATACGAGGGG TTCCACGACT ACGTAGGGCC AACTCAGATG 14400 CTGCCTCATG GGTGATTTCC ATCTCAAAAA TATCTGCCGT CCGCTCGACA ATTTCTGTCA 14460 AGTCAGCATG AGCATAATAC TCCATATGAC CTGTAATCCC AAAACGTGCC CGTAGTGGAT 14520 TTGAGAGCAT ACCAGCCCGA GTCGTCGCAC CAATCAAGGT AAAAGGAGGC AACTCCAAAT 14580 GAACACTGCG ACTGCCTTCA CCAGCCCCAA TCATAATATC GATGTAGAAG TCCTCCATGG 14640 CACTATAAAG CACTTCTTCC ACTGACATGG GTAAGCGATG AATCTCGTCA ATAAAGAGGA 14700 CATCTCCAGG CTCTAAATCA TTCAAAATCG CTACCAAATC ACCCGCTTTT TCGATAACAG 14760 GACCAGACGT TTGCTTGAGA TTGACTCCCA GTTCATTGGC AATGACAAAA GCCATGGTTG 14820 TTTTCCCAAG CCCTGGAGGG CCAAATAAGA GCACATGATC CAGCGCTTCA TCCCGCATTT 14880 TAGCGGCTTC GATAAAGATC TGAAGTTGAT CCTTAACCTT ATCCTGACCA ATATATTCAC 14940 GTAAATACTG AGGACGGAGC GTGCGTTCTA CTAACTCCTC ATCACCCATC ATCTCATTAT 15000 CTAAAATTCT ACTCATGGCT CTATTATATC AAAAAAAACA AGCCACAAAC AAAAAAGCCA 15060 CCTGATTGGG TGACTCCTAA GTTTAGCACT TATGTGGTAT AATATTATAC GGCACTTCTA 15120 CACCGCCTAC GAAAGGAGGT GAGATAGCCC ATGATGGAAT TAGTACTCAA AACTATTATC 15180 GGACCAATTG TGGTCGGTGT CGTTCTTCGT ATAGTCGATA AATGGCTAAA CAAGGACAAA 15240 TAGTGTCAAA AAAGACCTCA AGCTTATTTG GTCGTGAGCT TGGGGTCTTT TCTAGCCTAT 15300

617

GATATAGAAC	TAGTACTCAA	TTCCTTTTTA	TTATCCCATA	GTTCACGAAT	TTTGTCAAAA	15360
CTTTACATTT	TCTTCAACCG	CTGTACGACA	AGACGGTTAA	GATTAAGAGA	ACGTTAGGGA	15420
TTCTATCAAT	TTCATAGAAA	TTTTGATTTC	GTAAACGAAG	AGACAATCTT	ACATGTCACT	15480
TCTCATTTAA	TACGCCACTA	CTAGACAAGC	AAAATCATTA	TTACAGTAGT	TCCAGTCCTT	15540
CAATTAACAG	TCACTTACAA	TCAAATTGAG	TTTGAACTAG	CTGAAGCGAC	CACAGACCTA	15600
TTTCTTAGTC	ATATTCGCTA	AAAAAATCCC	CGCCAAAATC	TCAAAAAGTC	CCCGCCAATT	15660
CCCCGACCAA	AATCCGAAAA	ATACCGAAAA	ATATCGAAAA	ATTATTTTA	GAATAGTCCC	15720
AAAAATCCTG	AAATAGAGCT	AAAAAACTCC	ACCTGATTCG	GTGGAGTTAA	GGGAGATTAT	15780
PATGAAAAAG	AAAAGTTTAG	GATTTTATTA	AATAAAGTTA	GGAGGTCTTT	ATTTAATAAC	15840
FACATGATAC	AAGACGAAAC	TTAAAACTAG	CTTAACTTTT	СТААААТТТТ	ACTATTTTGC	15900
AAAAATTTC	TATCACCAGC	ACCTCACCAA	TCGAGTAGGG	GATAATCTCT	AGCCCCTCTC	15960
ACACCACCGT	ACGTGCCGTT	TGGCATACGG	CGGTTCAACT	AACTTTTAAC	GCATGTCGTT	16020
CAAGGTAATA	ATCCAAACAC	GAAACCAGTC	CACGTTTTTC	CAGGACTGGT	TTTGATATAG	16080
CACGTTTAAG	TACCGACTTC	TGAGCTACTA	ATTGATAATG	GTCGCCCCAG	CCAGATACCT	16140
PATCTGCTAT	CCATTTAGGA	ACTCCTAACT	TAAGCAATCC	CCATAATCGT	CTCGATTTCT	16200
PCTTCCATTG	CTTCCAGATA	ATCACTCGTA	GGCGAGTACG	CAAGCGCTCA	TCTATGCTGG	16260
CGACTATACT	TTTCATATTT	CCCAATGAGC	AATAGTTTAT	CCATCCTCGA	ATAGACAAAT	16320
PCAGTTGCTC	AATACGTCTT	GTTAGGTCTA	TACTCCATTT	CCTCTGTGTT	AGTTTCTTCA	16380
ATTTAAACTT	AAATCTCCGA	ACACTATCTT	GATGTGGACG	GCTTTTCCAA	CCATCTGATA	16440
ATTTCCAGAA	CCCAAAACCT	AGATATTTCA	ACTCTCTTGG	TCATGTTTAC	TTTCAAACCT	16500
AGCCGTTTCT	CAATAAACGA	CTGACTGAAT	ACATC			16535

(2) INFORMATION FOR SEQ ID NO: 75:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8136 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 75:

CCAGAGCGTT GCGTCCGAAA GTCTATCCAG ACACGGCTCT TTAAAAAACAA AAGGAGAAAT 60 GATGCATACT TATTTGCAAA AGAAAATTGA AAATATCAAA ACAACCCTAG GTGAAATGTC 120

			54.0			
AGGTGGTTAC	CGTCGTATGG	TTGCGGCTAT	618 GGCTGATTTA	GGATTTTCAG	GAACTATGAA	180
GGCTATCTGG	GATGACCTCT	TTGCCCATCG	TAGTTTTGCC	CAGTGGATTT	ATTTGCTGGT	240
TTTAGGAAGT	TTTCCTCTCT	GGCTGGAGTT	GGTTTACGAA	CATCGTATTG	TTGACTGGAT	300
TGGGATGATT	TGTAGCTTGA	CAGGGATTAT	CTGTGTAATC	TTTGTATCGG	AAGGTCGAGC	360
AAGTAATTAT	CTTTTTGGCT	TGATTAACTC	TGTTATTTAC	CTTATTTTGG	CCCTACAGAA	420
AGGCTTTTAT	GGTGAGGTGC	TGACGACACT	TTACTTCACA	GTCATGCAGC	CAATTGGACT	480
TCTAGTTTGG	ATTTATCAGG	CACAGTTTAA	GAAGGAAAAG	CAGGAGTTTG	TCGCGCGTAA	540
ACTGGACGGC	AAGGGCTGGA	CAAAGTATCT	TTCCATTAGT	GTGCTTTGGT	GGTTGGCCTT	600
TGGCTTCATT	TATCAGTCTA	TTGGTGCCAA	TCGTCCCTAT	CGTGATTCAA	TCACAGATGC	660
AACCAATGGG	GTAGGGCAAA	TCCTCATGAC	AGCTGTTTAC	CGTGAACAGT	GGATATTCTG	720
GGCGGCTACC	AATGTCTTTT	CAATCTATCT	CTGGTGGGGA	GAAAGCCTGC	AAATTCAAGG	780
GAAATATCTA	ATTTATCTCA	TTAACAGTCT	AGTTGGTTGG	TATCAATGGA	GCAAGGCAGC	840
TAAGCAGAAT	ACTGATTTAC	TTAACTAGGA	AAAGATGTTT	GAAAGTGCTG	TTTTGAGATT	900
TCGATTAAAA	CAGATATAGT	TGATAATCAA	GGATTTATAG	TATGAAAAAG	AGGATCGGCG	960
GGTCCTCTTT	TGTTGTTGAA	AAGATAAAAA	ACTCAGTAAC	CTAGAAATAA	GACAACTGAA	1020
GCTTTACTCT	ATATTCAATT	TTTAGGAATG	AGAAGGTCTA	GATAAAATTG	GACAACTTCC	1080
TGGTCTGTGA	AATCTTGACC	TTTTTTGAGC	CACCAGGTCA	ATGTCTCGAT	AAAGTTGGAC	1140
ATGACCAAGT	GTTGGAGGTA	AGAAGTAGGC	AGATTAGGGT	GGGCTTCTTT	TAAATTATCA	1200
GCTAGCACGG	AATAGACATG	GTGTTCTAGC	TCTTTATGGA	GTTGACGGAG	GAAGTAGTCA	1260
TTTTTGGAAA	ATAGCAGACT	GGTGATATGG	TCTTGGTTTT	TATGAAAATG	GAGAAAGAGG	1320
TGGGCGAGGT	AGTCCTCGGT	TGAAATGGCT	TGCTCTCTTT	CAAAAAGATG	ATGGAAGAGG	1380
TAGCGGCAGA	GCTGGTCCAG	AAGAAGCTCC	TTACTCTCAT	AGTGACAGTA	AAAGGTGGAT	1440
CGTCCCACAT	CTGCGAGATC	AATGATATCC	TGAACAGTAG	TGGCCTCGTA	GCCCTTAGCA	1500
TTCAAAAGTT	GTATAAAAGC	TTGATAGATG	GCTTTTTTGG	TTTTGCTGAT	ACGGCGGTCA	1560
ATGTTAGTCA	TATGGACACT	TAAGGCAAAT	TGTTCAGAAC	TGAATAAAGC	TGACGTTTTG	1620
CTTCTATCCT	TTCTTTGAGT	TTTAGTGGAT	AATGATAATG	AACAAGGTGT	TCATAAATCT	1680
ATTATAACAA	AGGAATGAGA	AATATGAAGG	CAAAATATGC	TGTTTGGGTG	GCTTTTTTCT	1740
TAAATTTGAC	TTATGCCATT	GTTGAGTTTA	TTGCAGGTGG	AGTATTTGGT	TCTAGCGCTG	1800
TTCTTGCTGA	CTCTGTGCAT	GACTTGGGAG	ATGCGATTGC	AATTGGAATA	TCAGCTTTTC	1860
TAGAAACAAT	CTCCAATCGT	GAAGAAGACA	ATCAGTACAC	CTTGGGCTAT	AAGCGGTTTA	1920

GCCTGCTAGG	AGCCTTGGTA	ACAGCTGTGA	TTCTCGTAAC	GGGCTCTGTT	CTAGTCATTT	1980
TGGAAAATGT	CACGAAGATT	TTGCATCCGC	AACCAGTCAA	TGATGAGGGG	ATTCTCTGGT	2040
TAGGAATTAT	TGCGATTACT	ATCAATCTGT	TAGCGAGTCT	GGTGGTTGGT	AAGGGAAAGA	2100
CAAAGAATGA	GTCTATTCTG	AGTCTGCATT	TTCTGGAAGA	TACGCTAGGG	TGGGTAGCTG	2160
TTATCCTGAT	GGCGATTGTT	CTTCGATTTA	CGGACTGGTA	TATCCTAGAT	CCTCTTTTGT	2220
CCCTTGTCAT	TTCTTTCTTT	ATTCTTTCAA	AAGCCCTTCC	ACGTTTTTGG	TCTACACTCA	2280
AGATTTTCTT	GGATGCTGTG	CCAGAAGGTC	TTGATATCAA	GCAAGTAAAG	AGTGGCCTGG	2340
AGCGATTGGA	CAATGTGGCC	AGCCTTAATC	AGCTTAATCT	CTGGACTATG	GATGCTTTGG	2400
AAAAAAATGC	CATTGTCCAT	GTTTGTCTAA	AAGAAATGGA	ACATATGGAA	ACTTGTAAAG	2460
AGTCTATTCG	AATTTTCCTA	AAAGATTGTG	GTTTTCAAAA	TATTACCATT	GAAATTGATG	2520
CTGACCTAGA	AACTCACCAA	ACCCATAAGC	GAAAGGTGTG	TGACTTGGAA	CGGAGTTATG	2580
AGCATCAACA	TTAGAAAAAA	GTGAAAAATA	CTTGGGTACT	ATCTTATTTG	GAATAGAGTA	2640
ATTTCTTTAT	TATTTAAATA	TTTCAAAAAT	TGGTAAGAGA	AGAGCATTGT	ATAAACTCCA	2700
GATATATGAT	TGTTAATGAT	AAAAATTTTT	CGATTAGATA	CAAAATGCTT	GACTTGGAGT	2760
CAACTCAAAG	ТТАТАТААТА	AGATAAGTGA	GTTAGAATAG	CGTGAATTCA	GTGAATGAAA	2820
TGAGAGGAGG	TTAGCGTGTG	AATATTAAAT	CTGCCAGTGA	TTTGTTGGGA	ATTTCAGCGG	2880
ATACGATTCG	GTATTATGAA	CGGGTTGGTC	TTGTGCCACC	GATTACTCGT	ACTGCTACTG	2940
GGATTCGTGA	TTTTCAAGAT	CAGGATATCG	AAGCGCTGGA	ATTTATTAAG	TGTTTTCGTT	3000
CGGCGGGTGT	CTCTGTAGAT	AGTTTAGTTG	ACTATATGTC	GCTCTACCAA	AAGGGAGATG	3060
AAACGAGAGA	GGAGAGGCTT	GGTATTTTAG	AAGAGGAAAA	GCAAAAATTA	GAGGAGCGCT	3120
TGTCTCAGCT	ACAGACAGCT	TTAAATCGTT	TAAATCTCAA	AATTAAACTT	TATAAGGAAG	3180
GAAAATTTTA	AATGAAATCA	GCAGTATATA	CAAAGGCAGG	TCAGGTTGGA	CTTGCTAGCA	3240
TTGAACGTCC	GCAAATAATA	GAAGCGGATG	ATGTGATTAT	TCGTGTGGTT	CGTGCGTGCG	3300
TTTGTGGTTC	AGATTTATGG	AGGTACCGTA	ATCCAGAAAC	GAAAGCTGGA	САСААААТА	3360
GTGGACACGA	AGCGATTGGG	ATTGTTGAAG	AAGCTGGGGA	AGCCATTACG	ACGGTGAAAG	3420
CAGGTGATTT	TGTGATTGTC	CCTTTTACAC	ATGGATGTGG	TGAGTGTGAT	GCCTGTCTTG	3480
CTGGATTTGA	CGGTTCTTGC	GACAATCATA	TTGGCAATAA	TTTGGGGGGT	GATTTTCAGG	3540
CAGAATATAT	TCGCTTCCAC	TATGCAAACT	GGGCGCTGGT	TAAAATCCCT	GGTCAACCTT	3600
CTGACTATAC	AGAAGGGATG	CTCAAGTCCC	TTTTGACTCT	TGCAGATGTC	ATGCCGACAG	3660

			620			
GCTATCATGC	GGCGCGTGTT	GCAAATGTTC	AAAAAGGGGA	CAAGGTTGTT	GTTATCGGTG	3720
ATGGGGCTGT	TGGTCAATGT	GCTGTCATCG	CGGCTAAGAT	GCGTGGAGCA	TCACAAATTA	3780
TCCTTATGAG	CCGTCATGAA	GACCGTCAAA	AGATGGCTAT	GGAGTCAGGT	GCGACAgcTG	3840
TTGTTGCAGA	ACGTGGTCAA	GAAGGAATTA	CCAAGGTGCG	TGAAATCCTC	GGTGGAGGAG	3900
CAGATGCAGC	ACTTGAATGT	GTTGGTACGG	AGGCTGCTAT	AGAACAGGCG	CTAGGTGTTC	3960
TTCATAATGG	AGGGCGTATG	GGCTTTGTAG	GAGTCCCACA	СТАТААТААТ	CGTGCTCTTG	4020
GTTCGACATT	TATGCAAAAT	ATCTCTGTAG	CAGGTGGGGC	AGCTTCTGCT	ACAACATACG	4080
ATAAGCAATT	TTTACTAAAA	GCCGTCCTTG	ATGGTGATAT	CAATCCAGGT	CGCGTCTTTA	4140
CTTCAAGTTA	TAAACTGGAA	GATATCGACC	AAGCCTATAA	AGATATGGAT	GAACGTAAGA	4200
CAATTAAGTC	TATGATTGTA	ATCGAATAAA	AAACGAATAG	GAGTTTTAGA	ACTCTATTCG	4260
TTTTTTATGT	TATCCTATTC	TTGATTTAGG	GTACTTTCTC	TTAATGTCAG	TCTGGTTCCC	4320
AGCATGGTCA	GGCTAGGGAT	TTTCCGACCG	TGGAGGACTT	CCTTGTTAAG	AATATCCATA	4380
CCTGCTCGGC	CCATTTCTTC	AGTATAAACT	GTAATACTAG	AGAGGGGAGG	ATAGACCTGT	4440
TTGGTCAGAC	TAGTGTCGTT	AAAGGAAATG	AGGCTGACGC	GATCTGGCAG	GCTGATTCCA	4500
GCTTCTTGGA	GGGCACGGAG	GGCACCGATA	GCTAAACTAT	CGCTGGCTGC	GAAAAATGCT	4560
GGCGGAAGTT	GGTCTCCCAA	GCTCTGAATG	GCCTCCTTCA	TTAAGTCATA	GCCAGACTGG	4620
GCAGTAAATC	TTCCTTGAAA	GACCAGTTCA	TCATGATAGA	TTCCCCTCGC	TTGACTATAG	4680
TTTTTGAAGT	TTTCTAGACG	CTTGTCCTGA	ATGATTTCTT	CTTGGTCTGT	TGTTTCTTCA	4740
AGGCCTGTTA	GAATCCCGAT	ACGGTCCATT	CCTTGACTGA	GGAAATAATC	GACAACCTGT	4800
PTCATAGCAG	TGTAAAAATC	CGTGATAATA	CAGGTATGTC	CCAGGGAAAG	TGTATCGCTG	4860
TCTAGAAATA	CAAGAGGCTT	TTGGTATTCT	TCAAAGGCAG	AAATCTGAGC	TCGACTAAAC	4920
PTTCCGATGC	AGAGAATCCC	AATCACTTCC	TCGCTTAGGG	TAAAAGGGTG	GTCATTAAAA	4980
PAGCGCAAGA	TATCATAGTC	CAACTCTTGG	GCTCTTTTTT	CTATTCCTAG	GCGAATCTGG	5040
PAGTAGTAGA	GGTCGTCCAG	CTCCCCTTGT	TCGCTGACCC	ATTGGATAAT	GGCAATCTTT	5100
FGCTTGGGTT	TGTGGGACTC	GCCTGTCTTG	AGGTGCTTGG	TGTAGCCCAG	CTCTTCAGCA	5160
ACGGTTAAAA	TACGGTGTCT	GGTTTCTTCT	GTAACAGATA	GGCTCTGGTC	GCGGTTGAGG	5220
ACGCGGGATA	CGGTCGCGAT	AGAGACAGAG	GCTAGCTGTG	CAATGTCTTT	TAAGGTAGCC	5280
ATAAATCCTC	CTTGATTAGG	TTAGTATATC	ATGTTTTTCT	TCTTTTTACT	GATATTTTAC	5340
ATTTTAAAAT	GTAAAAAGGA	TTGACCTTGG	AAAATTCCTT	GGATATAATA	GAAAGAAAAC	5400
GATTACACGT	TAAGATGGCT	TAACGGACAG	TCAAAGGAGA	ATTCATATGG	CACAACATCT	5460

TACTACTGAA	GCCCTTCGCA	AAGACTTTCT	TGCTGTTTTT	GGTCAAGAAG	CAGATCAAAC	5520
CTTCTTTTCA	CCAGGCCGCA	TTAATTTGAT	TGGTGAACAC	ACAGACTACA	ACGGTGGGCA	5580
CGTTTTTCCT	GCTGCTATTT	CCTTGGGAAC	TTACGGTGCA	GCTCGTAAGC	GTGACGACCA	5640
AGTCTTGCGT	TTCTACTCAG	CTAACTTTGA	GGACAAGGGC	ATTATCGAAG	TGCCTCTCGC	5700
TGACCTCAAG	TTTGAAAAAG	AGCACAACTG	GACCAATTAT	CCAAAAGGTG	TCCTTCATTT	5760
CTTGCAAGAA	GCTGGGCACG	TGATTGACAA	AGGTTTTGAT	TTTTATGTTT	ATGGAAATAT	5820
TCCAAATGGT	GCTGGCTTGT	CTTCTTCTGC	ATCCTTGGAA	CTCTTGACAG	GAGTCGTGGC	5880
TGAGCATCTC	TTTGATTTAA	AATTAGAGCG	TCTCGATTTG	GTTAAAATCG	GCAAACAAAC	5940
AGAAAACAAC	TTTATCGGAG	TAAACTCTGG	CATTATGGAC	CAGTTTGCTA	TTGGTATGGG	6000
GGCAGACCAA	CGTGCTATTT	ACCTAGATAC	TAATACTTTA	GAATACGACT	TGGTGCCACT	6060
TGATTTGAAG	GACAATGTCG	TTGTTATCAT	GAACACCAAC	AAACGCCGTG	AATTGGCGGA	6120
CTCTAAATAC	AATGAACGTC	GTGCTGAGTG	TGAAAAAGCA	GTGGAAGAAT	TGCAAGTTTC	6180
CTTGGATATT	CAGACTCTGG	GTGAATTGGA	CGAGTGGGCC	GTTGACCAAT	ATAGCTATCT	6240
GATTAAAGAT	GAAAATCGTT	TGAAACGTGC	TCGCCATGCT	GTGCTTGAAA	ACCAACGTAC	6300
CCTCAAAGCT	CAAGTAGCAC	TCCAAGCAGG	AGATTTGGAA	ACATTTGGAC	GCTTGATGAA	6360
TGCGTCACAC	GTTTCTCTGG	AGCATGATTA	TGAAGTAACT	GGTTTGGAAT	TGGATACCCT	6420
TGTTCACACA	GCTTGGGCAC	AAGAAGGAGT	TCTCGGTGCT	CGTATGACAG	GGGCTGGTTT	6480
TGGTGGCTGT	GCcATTGCCT	TGGTTCAAAA	AGATACTGTT	GAGGCCTTTA	AGGAAGCTGT	6540
AGGCAAACAC	TACGAGGAAG	TAGTTGGATA	CGCTCCAAGC	TTCTATATCG	CTGAAGTTGC	6600
AGGTGGCACT	CGCGTCCTTG	ACTAGTCAAA	AGGAGGCTCT	ATAGTGACCT	TAGTAAATAA	6660
ATTTGTAACA	CATGTCATTT	CTGAAAGCTC	ATTTGAGGAA	ATGGATCGAA	TCTATCTGAC	6720
CAATCGTGTT	TTGGCACGAG	TGGGAGAAGG	TGTTTTGGAA	GTTGAGACCA	ATCTGGATAA	6780
ATTGATTGAC	CTCAAGGACC	AGCTGGTTGA	AGAAGCCGTT	CGATTAGAGA	CGATTGAGGA	6840
TAGTCAGACT	GCGCGTGAAA	TCCTTGGTGC	TGAACTGATG	GATTTGGTGA	CTCCTTGTCC	6900
AAGTCAGGTC	AATCGTGATT	TTTGGGCAAC	CTACGCCCAC	TCTCCAGAAC	AAGCGATAGA	6960
GGATTTTTAC	CAACTCAGTC	AGAAAAATGA	СТАСАТСААА	CTCAAGGCCA	TTGCTAGAAA	7020
TATCGCTTAT	CGTGTTCCAT	CTGACTACGG	AGAACTTGAA	ATTACCATCA	ATCTCTCTAA	7080
GCCTGAAAAA	GATCCCAAAG	AGATTGTGGC	AGCCAAGTTG	GTGCAAGCTA	GTAATTATCC	7140
TCAGTGTCAG	CTTTGTCTAG	AGAATGAGGG	CTACCATGGT	CGAGTTAACC	ACCCAGCTCG	7200

			622			
TAGCAATCAC	CGTATTATCC	GTTTTGAAAT	GGTTGGTCAG	GAATGGGGTT	TCCAGTATTC	7260
GCCCTATGCT	TACTTTAATG	AGCATTGTAT	CTTTTTAGAT	GGCCAGCATC	GTCCCATGGC	7320
CATTAGTCGT	CAGAGTTTTG	AACGTCTGTT	GGCTATCGTA	GACCAGTTTC	CAGGATATTT	7380
TGCTGGATCT	AATGCCGACC	TGCCGATTGT	GGGGGCTCT	ATTCTAACTC	ATGATCATTA	7440
TCAGGGAGGC	CGTCACGTAT	TTCCTATGGA	ATTGGCTCCC	TTGCAAAAGG	CCTTCCGATT	7500
TGCTGGTTTT	GAGCAGGTCA	AGGCTGGAAT	TGTCAAGTGG	CCCATGTCTG	TCCTACGTTT	7560
GACTTCGGAT	TCCAAAGAGG	ATTTGATCAA	TTTGGCTGAT	AAGATTTTGC	AGGAATGGCG	7620
CCAGTATTCA	GATCCTGCAG	TGCAGATTTT	GGCAGAGACA	GACAGGACAC	CGCATCACAC	7680
TATCACACCC	ATTGCCCGCA	AACGCGATGG	ACAGTTTGAG	TTGGACTTGG	TCTTGCGAGA	7740
CAATCAGACT	TCAGCAGAGT	ATCCTGATGG	TATCTATCAT	CCCCACAAGG	ATGTCCAACA	7800
TATCAAGAAG	GAAAATATCG	GCTTGATTGA	GGTCATGGGC	TTGGCAATCT	TGCCACCACG	7860
rctgaaagaa	GAAGTGGAGC	AAGTCGCTAG	CTATCTTGTA	GGAGAAGCTG	TTACAGTTGC	7920
CGATTATCAT	CAGGAGTGGG	CAGACCAACT	CAAATCCCAA	CATCCAGACT	AACGGATAAA	7980
GAAAAAGCCC	TTGCAATCGT	CAAGGACTCT	GTGGGTGCTA	TCTTTGCGCG	TGTACTTGAG	8040
GATGCAGGAG	TCTACAAGCA	GACAGAACAA	GGGCAGACAG	CCTTTATGCG	CTTTGTGGAA	8100
CAGGTCGGAA	TTTTACTAGA	CTAGGAGCTT	TCTCGG			8136

(2) INFORMATION FOR SEQ ID NO: 76:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10011 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 76:

CCCATAGTGA	AGAGTGGCCA	TAAGAAGGTC	TTCTAGGCTT	AATTTAGGTT	TTCGTCCACC	60
TTTTGCGTGT	TTAAGTTGAT	AAGCTGTTTT	TAACACAGCT	GAACATCTCT	TCAAAAGTCG	120
TGCGCTGAAC	ACCAACAAGA	CATTTAAATC	GTGTATCAGT	TAGTTGTTTA	CTTGCTTCAT	180
CATTCATAGA	ACTACTATAC	CATGTTTTGT	TTCGCAGGAA	GTCTAATATT	GTCAAATACT	240
GGAACGCTCA	TTGCTGGGAT	ACGGAATAAG	ATTGGCCCAG	CTTCGATAAC	TGGGATACCT	300
GGTTCAAAAC	CAAGGTCTGT	TGCAGCGATT	GGTGTAAAGA	TATCGTAACC	TTTCATAAGG	360
TCTTCGTTTA	CATCTTTCAC	CATAACTGCA	TCACAGTGAA	CATCGTAACC	ACGGTTTGAA	420
AGTTCTTCTT	CTAGAGCACT	TTTAATTTGG	TGACTTGAGT	TAACACCTGC	ACCGCAGGCA	480

GCAAGAATTT	TAATCATTTG	GATTTCCTCC	GATTTTATTT	TTTAATAGAC	AAGATTAAGC	540
GGTTGCTTCA	GCAATGTAAG	CATAAAGGGC	TTCTGGTTCA	GAAATTTTTG	ATAGGTCTTC	600
AAGATGACCA	TTTCCTGTGA	AGAAGTCCAT	TAACTGAGCA	AGAATGTTCG	TTTGACTTGA	660
ACTTGAATTA	TTGATGATAA	AGAAGAGCAA	GGATACTTCT	ACTTCCTTAC	CTGGCGCAAT	720
CATATTATGG	AAAGTCACCG	GTTTCTCTAA	TCGAACAACC	ACCACTTTCT	CAGCTAGATT	780
ATGAACAATA	TCTGTGTGAG	GAATCATTAC	ATTTGCAAGT	CCTTTCCTAG	AAATTCCATA	840
TATAAACCAG	TTGGAAATGA	CTTTTCACGC	GTGATCAAGG	CTTCACGATA	AGTTGGAGTG	900
ACAATTTCTC	GTTCTTCCAA	CAAGCTTGCT	ACCTGATCAA	AAAGTTATTC	TTGATTATCC	960
GCTTCTAAGC	AAAACACAAG	GTTTTTGTCA	AAGAAATAAT	CTAATACCAT	AAGGTTTTCC	1020
CTTCTTTCCA	TTAACTTTAT	GCTATAAGTA	TAACACTATA	TGAAATCGTT	GTTAATTACT	1080
TTCTATTCTT	TTTTGTCTCT	TTTTTTATAT	TTTTGTTTTG	TTTATAGTTT	GTTATATAAA	1140
AATAAACACA	САААСАААТА	CTCCAAGCAT	TTTTCTGTTC	TAATACTCAA	TGAAAATCAA	1200
AGAGCAAACT	AGGAAGCTAG	CCGCAGTTGT	TCAAAACACA	GTTTTGAGGT	TGTAGATGAA	1260
ACTGACGAAG	TCACTCAAAA	CATGGTTTTG	AGGTTGTAGA	TGAAACTGAC	GAAGCAACAg	1320
CCATACATAC	GGTAAGGCGA	CGCTGACGTG	GTTTGAAGAG	ATTTTCGAAG	AGTATAAAAA	1380
CTAAAAAAGC	AGACCATCTA	AGCCTGCTTT	ACTATTGATT	СТТАТАТААА	TTTCCTGTGA	1440
ACAAGGAAAG	GCATTTCTGA	TAACTTATTC	TTCATCCATA	CTCAAGACGC	TGAGGAAGGC	1500
TTCTTGCGGA	ACTTCAACTG	ATCCGATGGA	TTTCATGCGT	TTCTTACCAG	CTTTTTGTTT	1560
TTCAAGGAGT	TTACGCTTAC	GAGAAACGTC	ACCACCATAA	CATTTAGCAA	GTACGTTCTT	1620
ACGAAGGCC	TTGATATCAG	TACGAGCGAC	AATCTTGTGT	CCAATAGCCG	CTTGGATTGG	1680
AACTTCAAAT	TGTTGGCGAG	GGATGATTTT	CTTGAGTTTA	TCAACGATGA	GTTTCCCACG	1740
TTCGTAGGCA	AAGTCCTTGT	GAACGATAAA	GCTGAGGGCA	TCCACCTTAT	CTCCATTGAG	1800
AAGAATATCC	ATTTTCACCA	GCTTAGATGG	GCGATATTCT	GACAATTCGT	AGTCAAAGCT	1860
TGCATAACCA	CGTGTCGAAG	ACTTAAGTTT	ATCAAAGAAG	TCAAAGACAA	TTTCAGCAAG	1920
AGGAATTTGA	TAGATAACAT	TGACACGGTT	ATCATCAATA	TAGTCCATAG	TCACAAAGTC	1980
CCCACGCTTA	CGCTGAGCTA	GCTCCATTAC	TGCTCCGACG	AACTCCTGTG	GTACCATGAT	2040
TTGCGCCTTG	ACATAAGGCT	CTTCAATGGT	CGCAATCTTA	GTTGGGTCTG	GAAACTCAGA	2100
TGGGTTAGAC	ACATCCATAG	ACTCACCGTC	GGTCAAATTA	ACTTTGTAAA	TAACAGACGG	2160
AGCTGTCATG	ATGAGGTCAA	TATTGAACTC	ACGCTCTAAA	CGTTCCTGGA	TAACATCCAT	2220

624 ATGGAGAAGT CCAAGAAATC CACAACGGAA ACCAAATCCA AGTGCCTGAG ATGTTTCTGG 2280 TTCAAACTGA AGACTAGCAT CATTCAGTTG CAATTTTTCA AGCGCTTCAC GCAGGTCATT 2340 GTACTTGTTT GATTCGATTG GGTAGAGACC CGCAAAGACC ATAGGATTCA TCTGCTTATA 2400 ACCATGTAAT GGTTCTGCCG CAGGATTGGT TGCCAAGGTA ACGGTATCAC CCACACGAGT 2460 ATCCTGAACC GTCTTGATAG ACGCCGCAAT GTAACCAACA TCACCAGTCG CAAGGAAATC 2520 ACGACCAACC GCTTTTGGTG TAAAAATACC GACTTCGGCC ACATCAAAGG TCTTACTATT 2580 GCTCATGAGC TGAATCTTAT CACCAGGTTT GACCACTCCG TCCATGACAC GCACTTGGAG 2640 GATAACCCCA CGGTAAGCAT CGTAAACAGA GTCGAAAATC AAGGCCTTAA GTGGCGCCGT 2700 CACATCACCC GTTGGTGCTG GTACTTTTTC TACAATTTGC TCGAGGATTT CTTCAATCCC 2760 AATACCAGCC TTGGCAGAAG CCAAAACTGC TTCACTGGCA TCCAAACCAA TCACATCTTC 2820 AATCTCTGTA CGCACGCGCT CCGGATCTGC AGCCGGCAGG TCAATTTTAT TAATGATAGG 2880 CATGATTTCC AAATCATTAT CCAAAGCCAG ATAAACGTTG GCAAGAGTTT GAGCCTCAAT 2940 TCCTTGAGCC GCATCGACCA CCAAAATAGC ACCCTCACAG GCAGCTAGCG AACGTGAAAC 3000 TTCATAGGTA AAGTCAACGT GCCCTGGTGT GTCAATCAAG TGGAAAATAT AAGTTTCCCC 3060 ATCTTTTGCA GTGTAATTCA ACTCGATGGC ATTCAACTTA ATAGTAATTC CACGTTCCCG 3120 CTCTAGCTCC ATGCTATCCA AAAGCTGGGC CTGCATTTCA CGACTTGAAA CCGTCTCTGT 3180 TTTTCCAAA ATGCGGTCTG CTAGAGTTGA TTTTCCGTGG TCAATATGGG CGATAATAGA 3240 GAAGTTACGG ATCTTCTCCT GTCGTTTTTT CAATTCTTCT AAGTTCATGA TTCTCTTCCT 3300 TTCAGGGTAT CTATTTATTA TAAATTGTTT TTGATATTTT GACAAGACCA TACCCTGCTA 3360 GGAGTACTAA TCTTCAGCGA CAAAGCCGTC ATTTTCGATA AAGTGGTGTT CTGTCATTCC 3420 TTGGTCTGTA AAGACAATCC CGTGAAGGAC ACCACCATAA ACAGCTCCTC CATCCATTCC 3480 AATCTTGCCA TCTTCTGTAG TCCAAAGCTC AGATGTACCG CGTTCTTGCT GTAACAAACC 3540 ATAGACCGGT GTATGACCGA AGACAATGGT TTTTCCAGTA TGATTTTCAG CTCCGTGGAA 3600 TGGTTTTCTA AGCCATACTT TTTTATAATC TGTTGTTTCA TGCCAGTCGT CCAAGGTCAA 3660 ATCAATACCT GCGTGAACAA AGATATACTT GTCTGTCTCT ACTACAAATG GCATTTGACG 3720 AATGAATTCG ACCAAGTCTG CCGCTTCAGC GgCAACCCGC TTGGCATCTT CTACTCCATC 3780 AACTGGTGCA TCCAAGGGAC GACCTAGGAT AGAGTTAATG GTTGTATCTC CACCATTGCG 3840 ACTATAATGG TCATAACTTT CTTCTGGGTC ATCTAGCCAA GTCAAAAACA TATACTCGTG 3900 GTTTCCGGAC AAACAGATAG CCCCTTGATT GTCCACCAAG TCCTTGACCA TTTCAAGAAC 3960 ACGGTGACTA TCCTCACCTC TGTCAATCAA ATCACCTAGA AAGAGCAACT GGGGCTGACC 4020

ATCCCAGGTT	TTGAGAAGGT	CTTCCAGCAT	CCCAGCTTTT	CCGTGAACAT	CTCCAATTAC	4080
ATAATAATCT	GTCATCTTAT	TTCTCCCTGT	TTCTCAACAA	TTCTCTTGCT	TGCGTCAGGG	4140
CTGCTTCTGT	CACATCATCA	CCTGCCAACA	TCTTGGCAAC	TTCCTCCACT	CGCTCTTCGA	4200
CCGTCAAGAG	ACGAACAGTC	GAAACCGTTG	AATGGTCATT	ACTAATCTTC	TCAATAAAGA	4260
ATTGATAATC	TGCAATCGCA	ATTACTTGTG	GCAAATGGGA	GATAGCCAAA	ACCTGACCAT	4320
GCTGACCAAT	TTTATGAATT	TTCTGAGCAA	TAGCTTGAGC	AACACGACCT	GAAACTCCCG	4380
TATCCACCTC	ATCAAAGACA	ATGCTAGTCT	TGCCTTCTTT	ACGTGAAAAG	GCAGACTTAA	4440
TGGCTAACAT	GAGACGAGAT	AATTCCCCTC	CAGAAGCAAC	CTTAACCAAG	GGTTTAAAGT	4500
CTTCTCCAGG	GTTGGTTGAA	ATATAAAACT	CAACCATTTT	ATTTCCCTCA	CGACTGAATT	4560
TTCCCTTACT	AAAACGAACC	TGAAACTGGG	CTTTTTCCAT	ATAAAGATCT	TGCAGTTCTT	4620
GTTTAATCTC	AGCTTCGAGT	TGCTGAGCCA	AATTATGACG	AGCAGAAGCA	AGTTGACCTG	4680
CCAAATTGAC	AAGATTGACT	TCCAACTTCT	TAAGCTCTGC	TTCCATGTCC	TCAGACGAAA	4740
GATTATTGCC	TGTCAAGAGA	TTGTATTCTT	CCGTAATCTT	GGCAAAATAA	AGCAAAACAT	4800
CATCAACAGT	CCCACCATAC	TTACGAGTAA	TAGTATGAAG	GAGGTCCAAA	CGATTCTCAA	4860
CCTGCATCAG	GCGATTGCCA	TCAAAATCAA	GGTCCTCAAT	GATAGCTTCC	AAACGTTTGC	4920
TAATGTCTTC	TAAAACATAG	TAGGTCTCAG	ACAGATAGCT	TGAAATTTCA	CGGTATTCAG	4980
GATCATACTC	TTCGACACTT	TCCATGTCAT	TCATAGCTGA	ACGAACATTG	GCCAGACTTG	5040
AAAAATCTTC	ATTGTCCAAC	ATACTGTAGG	CATTGGTCAG	TGTATCCGCA	ATATTTTTGT	5100
GGTTGAGGAG	TTTATCTCGC	TCTTGATTGA	GAGCCAAGTC	TTCTCCAGCC	TGCAAGTTTG	5160
CTGCCTCAAT	CTCTGCCATT	TGAAATTCCA	ACATTTCGAT	ACGTGCCTTG	TGTTCCTGTT	5220
GGTTTTTCTT	GACTTCCAGA	ACCTGCTTGC	GCATTTTCCG	ATAGGCATCA	AAACTCGTTT	5280
GATAGGTTTC	TTTCAAGTCC	CAAAAAGCGG	CATCACCAAA	TTCATCCAAC	ATCTGGATAT	5340
GCAGTTGGGG	ACGCATTAAC	TCCTCATGGT	CATGCTGACC	ATGAATATCT	ACAAGATGTT	5400
GCCCAATAGC	TCGCAAAACA	GACAGATTAA	CCATCTGACC	ATTTACACGG	CTGATACTAC	5460
GACCATTTTG	CAAGATTTCC	CGACGGATGA	TAATTTCATC	ACCTAATTCT	AAACCTTGCT	5520
CATCAAAAAT	TTCCTGTAAA	AGACGACTAT	TCTCAACTGA	GAAAAGCCCC	TCAATCTCTG	5580
CCTTTGGTGC	ACCATGACGA	ATAACATCTG	TCGTCGCACG	AGCTCCCAAC	ATCATATTCA	5640
TGGCATCAAT	GATAATCGAC	TTCCCTGCAC	CCGTTTCACC	AGTCAGGACA	GTCATCCCCT	5700
TTTCAAAATT	GAGGGAAATA	GCCTCAATAA	TGGCAAAGTT	TTTTATCGAA	ATTTCAAGTA	5760

626

ACATATAGAC CTACCAATTT TTTACTTGTT CAAAGATTTC CTCTGCTAGA CTTCCACTTC 5820 TGGCAATGAC TAAAATCGAG CTATCATCAG TCAAACAGCT AAAAATCTTG TCTGCAAAAG 5880 TCTCGATTAA CTGAGCTTTT ACAAAAGCCG TATTTCCTGG AATAACTTGG AGATTGATCA 5940 TCTTATCCAT CAATTCAGCC GATTCGATAT TGTCTTCAGC CAGTTGCAGA CTTTTTACGA 6000 TTGATTTTGG CAATTCGTAG ACATAGGTGT TGTCTCTCAA AGGAATTTTG ACAATACCTA 6060 ACTCTTTGAT ATCTCGGGAT ACCGTCGCCT GAGTGGCAGT GATACCTGCT TCTTTCAAAT 6120 GTTCTACAAT TTCTTCTTGC GTGCCGATTT GATAATCTGT CACCAATCTT CTAATTTTTT 6180 CAAGTCTCTC TTTTTTATTC ATTTTTAAAT TGACTATGCG CCCTCTCTAC TGCTTCTTTA 6240 ATCTCAGCAA GAATCTGATT GCTTGCTGAC TTTTCTTTTT TCAAATACGC TAAAAATTCA 6300 ATATTTCCAT GTCCACCTTG GATGGGAGAA AAGTCCAAGC CAAGGACTGA AAAACCTACC 6360 TCTACTGCCA TAGCTGTTAC AGATTCAAGG ACATTCTGAT GAACCTTAGC ATCTCGAATA 6420 ATTCCATTTT TCCCAATCTG CTCACGTCCT GCCTCAAACT GAGGTTTGAC AAGTGCTACC 6480 ACCTGACCTT GATCAGCCAA GACACGGTGC AAGGCTGGCA AAATCAGACT AAGGGAAATG 6540 AAACTCACAT CAATACTGGC AAAGCTCGGC TCCTGCTCGA AATCAGTCTT TTCAGCATAG 6600 CGGAAATTGA ACTGCTCCAT GCTGACAACT CGTGGGTCTT GGCGTAATTT CCAAGCCAAC 6660 TGATTGGTAC CAACATCGAC TGCAAAGACC AACTTGGCAC TATTCTGTAG CATGACATCG 6720 GTAAAACCTC CAGTAGAGGC CCCGATATCA ATCGTAGTCG CGCCATCCAC CGACAAATCA 6780 AAGACCTGCA AGGCCTTTTC CAGTTTCAAA CCACCACGGC TGACATACTT GAGTTTCTCC 6840 CCCTTGAGTT TTAATTCGGT GTCATCTGGA ATTTTCTCTC CTGGCTTGTC AAACCGTTCT 6900 CCATTAAGGA CTGCTACGAC TAGGCCAGCC ATCACACCTC GCTTGGCCTG CTCTCTCGTT 6960 TCAAACAACC CCTGTTTATA AGCTAGTACA TCCACTCTTT CCTTAGCCAT TGATTCTCAA 7020 ACTTTCTACT ACACTTACAA TCGATTCTGT TTCAAAGGGA AGCTGCTGGG CAATTTCTTC 7080 TAATTTTCA TTAGCTTGAT CCAGGGTTTG GTTACAAAAG GCAATGGACT CTTCCAAGCC 7140 CAACAGGCA GGATAGGTTG ATTTTTCTGC CTGCAGATCC TTTTGAGGTG TCTTGCCGAT 7200 TTCCTCAAAA CTAGCTGTCA CATCCAGTAC ATCATCTCTG ACTTGAAAAG CAAGTCCAAT 7260 CAATTCACCC ACAGTTTTCA GCTTCACCTG CATTTCAGGT GACAATTCAG CTATAATAGC 7320 TGCCGCTTGG AAGGGATAGG CTAGTAACTT CCCAGTCTTA TTGGCATGAA TAGTCTGAAG 7380 TTCTTCCAAA GACAAGTGCT GGTGTTCGCC CTCCATATCC AAAACTTGCC CTGCTACCAT 7440 ACCCAGACTA CCTGAAGCAA GGGATAAGTT GGCAATCAAG TCCACCTTAA TCTGACTTGG 7500 CAAATCTGCC TGCGCAATCA AGGCATATGA GTCTAAGAAT AAGGCATCTC CAGCCAAAAT 7560

GGCCATAGCT	TCACCGAATT	TCTTGTGATT	GGTTAACCGC	CCTCTTCGAT	AATCGTCATC	7620
ATCCATAGCA	GGAAGGTCAT	CGTGAATCAA	GCTCCCTGTA	TGAATCATCT	CTAAGGCAGT	7680
AGCTACCTGC	GCGTGAGCAG	GTTTGATGGT	AACCTGCAAG	GCTTCCAGAA	CTTCTAACAA	7740
GAGAAAAGGC	CGAATACGCT	TGCCACCAGC	ATGAATAGAA	TAGAGAACAG	ACTCCCGTAA	7800
ACTAGAGGCA	AACTGCTGGT	CTCCATAAAA	ATCTTCCAAA	GCCGACTCGA	CAAGAGCTAA	7860
TTTTTCTTGC	TTTTTCATTC	AAAATCACTT	TCTGTTCCGT	CTTCTTGCAT	GACCTTGACC	7920
AAGGTCTTTT	CAGCCTTGTC	CAGCGTAGCT	TGGAGCTCTT	TTGACAAGAC	CATGCCCTTT	7980
TGAAAGGCAG	TAATCGCATC	TTCCAGAGCA	ATTTCACCAT	TTTCCAAACT	TTGGACAATG	8040
GTTTCCAGTT	CTGCTAGATT	TTCCTCAAAT	TTCTTTTGTT	TTGACATCTT	TAACCTCTAA	8100
TTCTACTTGA	CCATCTCGCA	TCAAAAGCGT	TACTTGGTCT	TTTTTCTTCA	AACTCTCAAC	8160
CGAATCTACA	ACGGACTCTT	CTTTTTTGAC	AATAGCATAA	CCACGCGCCA	CGATTCGGCT	8220
AGTATCCAAC	ATGAGCAAAG	CTTCCGAAAG	TCGCTTGGCC	TCAGCAACCT	TGGCGTCATA	8280
AACTAACGCC	ATTTGGCTAC	CTAAGAGCTT	GTCCAACTGT	CCTAAACGGT	CTTGATAGCG	8340
TTGGATTTTG	GTAACAGGTG	ATAATTGTAC	TAATTGATGA	GTTCTTGCTT	GAACTAATTG	8400
TTTGTTATCA	GAAATCCGAG	TTCGCAAACT	TTGTTTCAAA	CGCAGTTGCA	GTTGGTCCAA	8460
GCGTTGCAAA	TAACCGTCAT	ACAAGCGCTC	AGGTTGTCTA	AAGATAACAG	ACTGACTGCA	8520
TTTTTTCAAA	GCCTCTTGTT	TCTTAGATAG	AACATTTCGG	ACTGCCGTTA	CCATCCGTTT	8580
TTCCTGATTT	TGCAAATGAG	CTAATACATC	CAACTTGGTC	ACAGGTGTTG	CCAGTTCAGC	8640
CGCCGCTGTT	GGCGTTGCAG	CGCGTCGATC	TGCCACAAAA	TCTGCCAAGG	TCACATCCGT	8700
CTCATGCCCC	ACACTAGAGA	TAACTGGCAA	ACGAGATTCA	AAAATAGCTC	GTACCACAAT	8760
TTCTTCGTTA	AAGGCCCAGA	GATCCTCAAT	AGAACCACCT	CCACGACCAA	TAATGAGCAA	8820
ATCCAAATCG	TCCCGTTGAT	TAGCACGCGC	AATATTTCTA	GCAATTTCCT	CCGCAGCCCC	8880
TTCACCTTGA	ACCTTGGTCG	GATAAAGAAG	GATGTCAACA	CCTGGGAATC	GCCTGCTGAC	8940
GGTCGTGATA	ATATCTCGAA	TAACGGCTCC	ACTACGGCTG	GTTACTACAC	CAATTCTCTT	9000
AGAAAATTGG	GGCAGAGCTT	GCTTGAAGCG	TTCTTGAAAC	AGGCCTTCTT	CTGTCAATTT	9060
TTTCTTAAGT	TGTTCAAACT	GAATCGCAAG	CGCCCAACC	CCATCAGGCT	CAGCTTTTTC	9120
AATGATGATG	GAGTAGCTAC	CACTTGGTTC	ATAGACCTGT	ACACGCCCAA	TCACATTGAT	9180
CTTCATTCCT	TCTTCCAGGT	САААСССТАА	TTTCTGATAA	ATCCCAGACC	AGATGGTCGC	9240
TTGAATAACT	GCATGGTCAT	CCTTTAGGGA	GAAATATTGG	TGAGTAGGTC	GTTTACGAAA	9300

	628							
GTTGGAAACT TGACCAGTTA AATAGA	CCCG TTCCAAGTAT	GGGTCTTTAT	CGAATTTCAT	9360				
TTTCAGATAC TTGGTCAAAG TTGTTA	ССGA ТАААТАСТТТ	TCCATCTCCA	CCTACTATTC	9420				
ATTTACTTGC TCTTTCATGG GTATTA	ттат ассааааата	TGCCTAAAAA	TCTCCATTTA	9480				
TGTACCATTA TGAGGGAAAA ATAGAA	AAAG GAGGCAAGGC	CTCCACATGT	GATTATTTGC	9540				
TGTTTCGAGC TTCTTCCAAA ATCTTT	GCAA TCTTGGTCGT	CAACAGGTCG	ATAGCCACGG	9600				
TATTGCTAAC CCCTTCAGGA ATGACG	ATAT CAGCATAACG	CTTAGTTGAC	TCGATAAACT	9660				
GGTGGTACAT TGGTTTGACC ACACCT	AAGT ACTGGTTAAT	AACGCTATCA	AGGCTACGGC	9720				
CACGCTCCTC CATATCACGC TTGATA	CGAC GAATAATGCG	CACATCGTCA	TCCGTATCCA	9780				
CAAAAATCTT GATATCCATC AAATCG	CGCA GACGCTTGTC	CTCCAAGACC	AAAATACCCT	9840				
CAACGATAAA GACATCTTGA GGTTCC	TGAC GATAGGTCTT	GCTACTCCGT	GTATGCTCTG	9900				
TATAGTCGTA GGTCGGGATG TCCACC	GGAC GCCCTGCCAA	CAATTCCTTA	ATCTGCTCGA	9960				
TCATCAAGTC TGTATCAAAG GCAAAA	GGAT GGTCATAGTT	GGTTTTGACG	G	10011				
(2) INFORMATION FOR SEQ ID NO: 77:								

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 5365 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 77:

CGTGTGGTCT TAAAAATAGA AGACAAAGAA CAAACTGTTG GAGGCTTTGT CCTTGCAGG	C 60
TCAGCCCAAG AAAAAACCAA AACAGCTCAA GTTGTGGCTA CTGGACAAGG TGTTCGTAC	C 120
TTGAACGGTG ACTTGGTTGC TCCAAGTGTT AAAACTGGAG ATCGTGTCTT AGTTGAAGC	C 180
CACGCAGGTC TTGATGTCAA AGATGGCGAT GAAAAGTACA TCATCGTAGG CGACTAACA	T 240
TTTGGCAATC ATTGAGGAAT AGAAGGAGAA AGTAAGTATG TCAAAAGAAA TTAAATTTT	C 300
ATCAGATGCC CGTTCAGCCA TGGTTCGTGG TGTCGATATC CTTGCAGACA CTGTTAAAG	т 360
AACCTTGGGA CCAAAAGGTC GCAATGTCGT TCTTGAAAAG TCATTCGGTT CACCCTTGA	T 420
TACCAATGAC GGTGTGACCA TTGCCAAAGA AATCGAATTG GAAGACCATT TTGAAAATA	T 480
GGGTGCTAAG TTAGTATCAG AAGTAGCTTC TAAAACCAAT GATATCGCAG GTGACGGAA	C 540
TACGACTGCA ACAGTCTTGA CCCAAGCTAT CGTCCGTGAA GGAATCAAAA ACGTCACAG	C 600
AGGTGCAAAT CCAATCGGTA TTCGTCGTGG GATTGAAACA GCAGTTGCCG CAGCAGTTG	A 660
AGCTTTGAAA AACAACGCCA TCCCTGTTGC CAATAAAGAA GCTATCGCTC AAGTTGCAG	C 720

CGTATCTTCT	CGTTCTGAAA	AAGTTGGTGA	GTACATCTCT	GAAGCAATGG	AAAAAGTTGG	780
CAAAGACGGT	GTCATCACCA	TCGAAGAGTC	ACGTGGTATG	GAAACAGAGC	TTGAAGTCGT	840
AGAAGGAATG	CAGTTTGACC	GTGGTTACCT	TTCACAGTAC	ATGGTGACAG	ATAGCGAAAA	900
AATGGTGGCT	GACCTTGAAA	ATCCGTACAT	TTTGATTACA	GACAAGAAAA	TTTCCAATAT	960
CCAAGAAATC	TTGCCACTTT	TGGAAAGCAT	TCTCCAAAGC	AATCGTCCAC	TCTTGATTAT	1020
TGCGGATGAT	GTGGATGGCG	AGGCTCTTCC	AACTCTTGTT	TTGAACAAGA	TTCGTGGAAC	1080
CTTCAACGTA	GTAGCAGTCA	AGGCACCTGG	TTTTGGTGAC	CGTCGCAAAG	CCATGCTTGA	1140
AGATATCGCC	ATCTTAACAG	GCGGAACAGT	TATCACAGAA	GACCTTGGTC	TTGAGTTGAA	1200
AGATGCGACA	ATTGAAGCTC	TTGGTCAAGC	AGCGAGAGTG	ACCGTGGACA	AAGATAGCAC	1260
GGTTATTGTA	GAAGGTGCAG	GAAATCCTGA	AGCGATTTCT	CACCGTGTTG	CGGTTATCAA	1320
GTCTCAAATC	GAAACTACAA	CTTCTGAATT	TGACCGTGAA	AAATTGCAAG	AACGCTTGGC	1380
CAAATTGTCA	GGTGGTGTAG	CGGTTATTAA	GGTTGGAGCC	GCAACTGAAA	CTGAGTTGAA	1440
AGAAATGAAA	CTCCGCATTG	AAGATGCCCT	CAACGCTACT	CGTGCAGCTG	TTGAAGAAGG	1500
TATTGTTGCA	GGTGGTGGAA	CAGCTCTTGC	CAATGTGATT	CCAGCTGTTG	CTACCTTGGA	1560
ATTGACAGGA	GATGAAGCAA	CAGGACGTAA	TATTGTTCTC	CGTGCTTTGG	AAGAACCCGT	1620
TCGTCAAATT	GCTCACAATG	CAGGATTTGA	AGGATCTATC	GTTATCGATC	GTTTGAAAAA	1680
TGCTGAGCTT	GGTATAGGAT	TTAACGCAGC	AACTGGCGAG	TGGGTTAACA	TGATTGATCA	1740
AGGTATCATT	GATCCAGTTA	AAGTGAGTCG	TTCAGCCCTA	CAAAATGCAG	CATCTGTAGC	1800
CAGCTTGATT	TTGACAACAG	AAGCAGTCGT	AGCCAATAAA	CCAGAACCAG	TAGCCCCAGC	1860
TCCAGCAATG	GATCCAAGCA	TGATGGGCGG	GATGATGTAA	GCTTTCTATA	GAAAACAACT	1920
TATAAAAAAC	ACAAAAGGAG	GGAATGACTA	ACCCTTCTTT	TTATAGGCTC	TTTGTCAACT	1980
GTAGTGGGTT	GAAGTCAGCT	AAGCTCGAGA	AAGGACAAAT	TTCGTCCTTT	CTTTTTTGAT	2040
GTTCAAAGCG	ATAAAAATCC	GTTTTTTGAA	GTTTTCAAAG	TTTCGAAAAC	CAAAGGCATT	2100
GCGCTTGATA	AGTTTGATGA	GATTATTGGT	CGCTTCCGGT	TTGGCGTTAG	AATAGTGTAG	2160
TTGAAGGGCG	TTGATAATCT	TTTCTTTATC	TTTGAGGAAG	GTTTTAAAGA	CAGTCTGAAA	2220
AATAGGATGA	ACTTGCTTAA	GATTGTCCTC	AATAAGTCCG	AAAAATTTCT	CCGGTTCCTT	2280
ATTCTGAAAG	TGAAACAGCA	AGAGTTGATA	GAGCTGATAG	TGATGTTTCA	AGTCTTGTGA	2340
ATAGCTCAAA	AGCTTGTCTA	AAATCTCTTT	ATTGGTTAAA	TGCATACGAA	AAGTAGGACG	2400
ATAAAATCGC	TTATCACTCA	GTTTACGGCT	ATCCTGTTGT	ATGAGCTTCC	AGTAGCGCTT	2460

630 GATAGCCTTG TATTCATGGG ATTTTCGATC CAATTGGTTC ATAATTTGAA CACGCACACG 2520 ACTCATAGCA CGGCTAAGAT GTTGTACAAT GTGAAAGCGA TCCAACACGA TTTTAGCATT 2580 CGGGAGTGAA ACAGTCTGGG AGACTGTTTC AGCCTGAGCC TAGAAATTTG AAAGCGAAGC 2640 TGTTTAGCCA AGTCATAGTA AGGACTAAAC ATATCCATCG TAATGATTTT CACTTGACAA 2700 CGAACGGCTC TATCGTAGCG AAGAAAGTGA TTTCGGATGA CAGCTTGTGT TCTGCCTTCA 2760 AGAACAGTGA TAATATTAAG ATTATCAAAA TCTTGCGCAA TGAAACTCAT CTTTCCCTTA 2820 GTGAAGGCAT ACTCATCCCA AGACATAATC TTTGGAAGCC GAGAAAAATC ATGCTCAAAG 2880 TGAAAGTCAT TGAGCTTGCG AATGACAGTT GAAGTTGAAA TGGCCAGCTG ATGGGCAATA 2940 TCAGTCATAG AAATTTTTC AATTAACTTT TGAGCAATCT TTTGGTTGAT GATACGAGGG 3000 ATTTGGTGAT TTTTCTTTAC CAGGGGAGTC TCAGCAACCA TCATTTTTGA ACAGTGATAG 3060 CACTTGAAAC GACGCTTTCT AAGGAGAATT CTAGAAGGCA TACCAGTCGT TTCAAGATAA 3120 GGAATTTTAG AAGGTTTTTG AAAGTCATAT TTCTTCAATT GGTTTCCGCA CTCAGGGCAA 3180 GATGGGGCGT CGTAGTCCAG TTTGGCGATG ATTTCCTTGT GTGTATCCTT ATTGATGATG 3240 TCTAAAATCT GGATATTAGG GTCTTTAATA TCGAGCAGTT TTGTGATAAA ATGTAATTGT 3300 TCCATATGAA TCTTTCTAAT GAGTTGTTTT GTCGCTTTTC ATTATAGGTC ATATGGGACT 3360 TTTTTTCTAC AACAAAATAG GCTCCATAAT ATCTATAAGG GATTTACCCA CTACAAATAT 3420 TATAGAGCCG AAAATTCACA TCTAATATAT GCAGACTACT TTGAAATGAA ATTAAAAAAA 3480 TTATTAAAGG ATGACACAAA AGTTTTTGAA AAATCTACAT TCAAATTTTGT AGAAGGATAT 3540 AAAATATACC TGACAGAATC TAAAGAATCT GGAATTAAAC AAATGGACAA TGTCATAAAA 3600 TATTTTGAGT TTATTGAATC TAAAAGTATT GCTTTATATT TTCAAAAACG ATTAAATGAG 3660 CTGATAGATT AAATAGCATT TTCTCTGTTG AGATATTGTT TTTAAAATAT TGTACTAAAT 3720 GATTGATGCT ATGTGGAAAT ACAAAAAAT GTTTTTGATA CGAAGTTGAC CTGTATTTTT 3780 TATACTAATC ATTTTCGTAT TTTTTGTATT AAACGATATA AGTTTGTTGT AAACTTACAA 3840 GGAATAAAGA CATTAAAAAA TAACAGTATA TCTATTTGTT TTATATATTT TACGAATTCT 3900 GCATAAATCT CTTTCTAGTA ATGTGTTGTA ACTCTGCTAT AATAGATTTA TTCCTTTTTG 3960 TGTTTACACA ATTTATTTA TAGTACCAAA AAAGGTCAGG ATTTTGTTCC TGACCTTTGA 4020 CAACTTTACC GATTCTTTAG TTCTACATAG CGCTTGTACC AAATGTTTAC ATAGGCTTCT 4080 GAGAAAGGAC CACGTCCATT GTTAATCCAA TCAACAAGAA TTTTGACATG TTCTTTTAAA 4140 ATATAGTCCA AGTCATCAGA ATAATTCATT TTGCGTTTGT GACGCTCGTA CTCTTCAACG 4200 TCCAAGAGAC GTTTTTCCCC ATCTGTAAAA ATTTTAACAT CCAAATCGTA ATCAATATAC 4260

631

TTCAGTGCTT	CTTCATCCAG	ATAGTAGGGG	CTAGCCATAT	TGCAATAGTA	AGAAGTTCCA	4320
TTATCACGAA	TCATGGCAAT	GATATTAAAC	CAATATTTCT	TGTGAAAGTA	AACAATAGCC	4380
GGTTCTCGAG	TGACCCAACG	ACGACCATCA	CTTTCGGTAA	CAAGTGTATG	ATCGTTGACA	4440
CCAATAATGG	CGTTTTCTGT	TGTTTTTAGT	ACCATGGTGT	CCCGCCAAGT	TCGGTGGAGA	4500
CTCCCATCAT	GCTTATAACT	TTGAATTGTA	ATAAAGTCGC	CTTCTTTTGG	AAGCTTCATA	4560
ACTAACCAAC	TTTCTACAAT	TTATAAGTTT	ATCATTTACT	ATTGTACCAT	AAAATTACCC	4620
AAAATCTGTG	AATTTCACTT	GGAAATATTA	AAGATATTCT	CTAAGAGCGC	TTGCTATATC	4680
CGAAAAATCG	TAGCCCTTTC	GTGCTAAAAC	TTGAGTTAAA	CGCTGCTTCA	GTTCGTATCC	4740
TTCATACTTT	CGGGCATACT	TAGTATATTG	CTTATCAAGT	TCCTTGAAGA	TGAGTTCCTG	4800
AGTCGTTTCT	TCATCAACTT	GACTATCCAA	TTCGTCAAAG	GCAATTTTAG	CATCAAAATA	4860
AGAGAAGCCC	TTGTTAGTCA	AGTTCTGGAT	AATCTTATCT	TGCAGGGCAC	GAGCTGGAAG	4920
TTTTCCCTCA	TATTTTTTCA	ATAGTTTATT	GGCTACACGT	TGAGCAACTT	CCGAAAAATC	4980
AAAATCATTC	AAGATTTCTT	CTATAGTAGA	TTTTGAAATT	CCTTTTTGTG	CTAATTTCTG	5040
AGTCAGTACA	TAAGGTCCCT	TGTCTCCTGA	AAGTTGATTG	GCATTGATGA	TAGCATAAGC	5100
GTACTGGCTA	TCATTAATCC	ACTTCTCTTC	TTTAAGATTA	GCAATGACTT	GAGAAACGAT	5160
GTTTTCATTA	ATATCATATT	TTTTCAGATA	TTCTCTGACC	TCTTTTTCAG	TACGTGCTTT	5220
AAAGGATAAG	TGGTAGAGGG	CCAGATTCTT	ACCATAAGAA	AATTGAGCAA	AGTCTTGAAT	5280
CTCTTTCAAT	TCCTCTTCGC	TTATCACCTT	ATCTCTCGAT	AACATAAAAC	GAACAATTGT	5340
GTCTTCGGTG	ATATAGCATT	TGTCG				5365

(2) INFORMATION FOR SEQ ID NO: 78:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3636 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 78:

TTTCCAGAAA	GAAGTTGAGT	AAAGTCTTTA	TCAAAGAGAA	TGACTTCCGT	ATTGGAACTG	60
ACATTAGGTT	TTATTTCTAC	TTTACTAGCG	TCCGCCCTAG	CATTTTCTAA	ATCTTTAATC	120
TCTTCTGTTG	CCCTATTTAT	AGCCAGCTGA	ATAACTGCTT	GAGGATTTTC	ACTCAGTCCA	180
TGAAGCTTAT	CGTCCACCGA	AGTATAAAGA	CTCGAATGCA	TGACTTGTAA	AATAATCAGA	240

632 GTCATTGTAG AAAAAATCAG GGTGAAGACA CCGAAGTTGC GGATAAAATA ACTAAAGTCA 300 TCCGCATACC ATGTTTTTT AAGTTTACTG AACATCTTTT AAAAGATACC CAACACTACG 360 CAAAGTTTGC AAATTCTCTG CAAAAGTGGT TCCCTTTAAT TTCTTACGGA CTTTTGAAAC 420 ATAGACTTCG ACAACCGAAA TCGTTGTATC ACTATCAAAT CCCCATAGAC GGTCAAAAAT 480 CTGCGTCTTA GGCAAAATCA CATTTTGATT TTGAAGGAAA TAAACTAGTA AATCGAACTC 540 TTTCCCCAGC AATTCGACAG GAGTATCTTC AACTTTAACG GTATTGGTTG ATAAATTAAC 600 CACGATATTC CCATAAGTCA AGGTGTTTTC ATTAAACTTC CCTGAACGTT TGAGAAGGGC 660 CTGAATCCGC ATTTTAAGTT CTTCTAGGTA GAAAGGTTTG GTCAGATAAT CATCCGCTCC 720 CAGTTCAAAT CCATGTCCCT TGTCATCCAA ACTTTCCTTG GCAGTCATAA TCAGAACTGG 780 TGTCGTAATT CCCTTTTCAC GCAATTCTTT TAAGACTTGG AAACCATTTT TTTCTGGCAA 840 CATCAAATCC AGCAAAATCA AGTCATAGAC ACCACTCTCA GCTTCGTAGA GACCTTCTTC 900 TCCATCAAAT ACCTGCATAA CATCCGCAAA ATCGTCTAAA AAGTCAAATA CTGAATTTGA 960 CAGACCTAGG TCATCCTCAA CCAATAAGAT TTTTATCATG AGAAACTCCT CCTTATTAAA 1020 ACTATTATAC CAAATTTGCC TTAAAAAAAA CTCAACTCTC TGCATTTTAC ATGAGATAGC 1080 TGAGTTTTCT TTTTATTTTA GGCTTATTTA TGCATTTCCG TATTGAAGAA CAACTGCTTC 1140 GACTGCAGCT TTTTCACGGC TAATCAAGTC AACACGCGCT GCAATTTCCT TGATTCCCAT 1200 ACCGATGTTA CGGCTAAGAG CAAGGTCAGA AAGTTGCGGT TCAAAGAACT CCTTGTATTC 1260 CGCCAAGCGT TGCTGAGTCT TAAATACATG AGCAGGAAGG ATAACAAAGC TATCAAAGCT 1320 CATATCTCCT CCAAGGGCTG CCTTAATCCA AGCCCAGTTT TCACGCGCCC AAGACCAAGC 1380 TGTTTTCTGA GTTGCTTGAT GAGCTAGGAA TTGGTAATAC CAAGCAGACA AGTCCTGTGG 1440 TTTGACCACA AATTTGTCCT TCCAAGAAGT AATCAGGTTT TGGATATTAT CCGCATCTGT 1500 ACTGTATGCA AGAGCTGCTG CCAACTGGCG TTTAAAGACA GCATCTGTTG CGTGAGTATA 1560 AGTATCAAGA TAAAGTGCTA ACAAGTCTTT AGTCTCATGA TGTTTCATCT CATTAATCAG 1620 AACTTGTGAG CGAATAGCTG CTGGGAGTCC TGCAAGATTC TCCTTGTGTG TTGCGAAGAT 1680 TTGGCTAGCG ACTTGACTAG CTTCTGCATC ATTTGAGCGA ATCATCATCG AAACAGCCAG 1740 CTGACGAACC AATTCATCCT CATCTGATTC TCCGTCTTTA GCTTCAAAAC CAAGACGGTC 1800 ATAGTTATGA CGAGCCAATT TAGCAACCAG TCCTTTGAAG GCTGTTTCAG CATCCGTTCC 1860 TTCATCAATA AAGCGCTCAA GGGCTGAAAT CACTTGAGAA ACAGCTGAAA CCACCAGATA 1920 AGACTCTTCC TTAGCAAGTT TATCAAGAAC TGGAAGCAAG TCTGCATAAG AAATGTGCCC 1980 TGCCTCAGCC AACAAACGAC GTTCTTGAAC AATTTGCAGT TTGCTTGTGT TATCAAGTGT 2040

CTCTAGCTCA	GCAAGAACAG	CTGCTAACAA	GTCTCCTTGA	TAGTCGGTAA	TATAGTGGGC	2100
AGTATTTTCA	GTGTTGAGAC	GAAGAGCTCC	TTCATTTTCA	GCAAGAAGAG	CTGCGTAGCC	2160
AGGGATTTCG	ATACTTTCAG	TTTCGAGTGT	ATCAGGCAAG	CCTTTCCAGT	TGCTATTGAG	2220
GGGCACCACC	CAGAGACGGT	TCTTGTCTTC	GTTCTCACCG	ATGAAGAATT	GTTTTTGTGA	2280
AATCTTCAAG	ACATCATTTT	CAACTTTAAC	AGTAAGAACT	GGGTAACCAG	GCTGTTCCAA	2340
CCAAGAATCC	ATGAAGGCTG	CGACATCACG	TCCTGACGCT	TGACCAAGGG	CATCCCAAAG	2400
GTCACTACCA	ATGGTGTTGC	TGTATTGGTG	TTTTTCAAAG	TAGGCGTGCA	AACCTTTAGC	2460
AAAATCAGCA	TCTCCTAGCC	AACGGCGAAG	CATGTGCATG	AGACGGCTTC	CTTTGGCATA	2520
GACGATAGCG	CCGTCAAAGA	GTGTATTGAT	TTCATCTGGA	TGTTTAACTT	CGACGTGGAC	2580
AGACTGAACG	CCATCAGTAG	CGTCACGTTC	AAGAGCAAGA	GGTACTCCAC	CTGTTTGGAA	2640
ATCTTCAAAG	ATATTCCAGC	TTGGTTCGAT	GGTATCCACA	CAGACGTATT	CCATCATATT	2700
AGCGAAACTT	TCATTGAGCC	AAAGGTCATC	CCACCATTTC	ATAGTCACGA	GGTTCCCAAA	2760
CCATTGGTGA	GCCAATTCAT	GGGCCACAAC	AAGGGCAACT	TGTTGACGGC	TAGCAAATGT	2820
AGAGTTCTCA	TCGACAACCA	AGTAAACTTC	ACGGTAGGTC	ACAAGACCCC	AGTTTTCCAT	2880
AGCACCAGCT	GAGAAGTCAG	GAAGGGCGAT	GTGGAGAGAT	TGAGGAATTG	GGTACTTAAC	2940
TCCATAGTAA	TCTTCGTAAA	ACTCGATAGA	GCGAACAGCG	ATATCCAGTG	AGAAATCAAG	3000
ATTTGAAAGT	GGATGTGCTT	TGGTTGAGTA	GACACCTACC	AGGGTACCAT	TTTTAGTTTT	3060
AGCGGTCACC	CCTTGCAAAT	CACCAGCAAC	AAAGGCCAAC	AAGTAAGAAG	ACATGCGAGG	3120
TGTTGTCTCA	AACTTCCAGA	TACCTGTTTC	CTTACGGTTT	TCAACATCGA	TTTCTGGCAT	3180
GTTTGACAAG	GCCAATTCAC	CTTCTGCTTG	GTCAAAGCGA	AGAGAGAGGT	CAAAAGTTGC	3240
TTTGGCTTCA	GGCTCATCCA	CACATGGGAA	AGCTTCGCGC	GCAAAATGGC	TCTCGAACTG	3300
AGTAGACAAG	ACCTCCTTCT	TGACTCCATC	AACTGTATAA	TAAGAAGGGT	AAATCCCTGT	3360
CATGTTGTCT	GTAATTTTAC	CAGAAAAGGC	AAGAACCAAT	TCAACTTGAC	CAGCCTCAGC	3420
CAATTCGATA	TGAAGGGCTT	CATTGTCATG	GTCAACTGTA	AATGGACGAG	CTTGACCTGC	3480
AACTTCTACA	GAGGTGATTT	CCAAATCTTT	TTGGTGGAGG	GAGATGCGGT	CACTCTGTGC	3540
TTGACCAGTG	ATGGTCACTT	TCCCAGAAAA	AGTCTTGGTC	TCACGACTCA	AATCTAAAAA	3600
TAAATCATAA	TGTTCAGGAA	CAAATTGCTT	AATGGG			3636

⁽²⁾ INFORMATION FOR SEQ ID NO: 79:

⁽i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5066 base pairs

PCT/US97/19588 WO 98/18931

634

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:

ATAGCGTGTA ATAATCGATT TTAGAGGTAC CATAAGCCAC CTCCTACAAA TAGAAACC	GA 60
TATAAATCAA TGCCTTCCAC CCTTAGACTT CCCTAGTTCC TGTCTCAAGC GAAACATT	TC 120
TTTGAAACAG GAATAAGTTA ACCAATTCAT ACCAATAGCT AGCAGAATAA AAAGAAAC	CA 180
AATGCCCCAT AACTTGATAT CTGTCACATT TCTCAAGACG GTATTGAAAA ACAGAACT	GA 240
AACAACTGTC CAAGCAAGGC TAAAAAGAGA ATAGAAGGGG ATGTAAAAAC AGTAAAAA	TA 300
ATAAAAAATT GGAAAAAACT TACTATTTCT GTTGGCCTTT TCAATCCAGT TATCAAAA	TA 360
AAAGTACGGT GCTAAAAGTA AGAATTTAAA CAAATGTTCC ATCACCGACA TCCCCCCT	rc 420
TTTTGATAGC GTTTTCTATT ATTTATTAT ATCAAAAAA TCCGGAACTG TCATTCCA	GA 480
TTCTACTTTT TTATTTGCGT TTTCTTGCGA TGAGATGAAT CGGTGTTCCC TCAAAAAC	AA 540
AGGCCTTGCG GATTTGATTT TCCAAGAAAC GCAGGTAAGA AAAGTGCATG AGTTCTTC	TT 600
CATTGACAAA GATGACAAAG GTTGGTGGTT TGGTTGCCAC TTGGGTCGCA TAGAAAAT	CT 660
TGAGACGTTT TCCTTTGTCT GTCGGTGTTG GGTTGATGGC AATGGCATCC ATGATGAC	AT 720
CGTTCAAGAC AGCTGATGGA ATACGTGTAT TTTGACTTTC GCTGATTTGC TTAATCAT	CT 780
CAGGAAGTTT GTGGAGACGT TGCTTGGTTA AAGCTGATAC AAAGATAATC GGTGCGTA	AG 840
GCAGGTATTG GAACTGCTCA CGGATATCTT CTTCCCAGTT TTTCATAGTG TGGTTATC	TT 900
TTTCAAGCGT ATCCCACTTG TTGACCACGA TAATCATCCC TTTACCAGCT TCATGGGC	AA 960
ATCCTGCGAT ACGCTTGTCG TACTCACGAA TGCCTTCTTC CGCATTGATG ACCATCAA	GA 1020
CCACATCTGA ACGGTCAATA GCACGCATGG CACGCATAAC AGAGTATTTC TCAGTATT	TT 1080
CATAAACCTT ACCAGACTTA CGCATACCAG CCGTATCAAT CATGGTAAAC TCTTGACC	AT 1140
CTGTATCTGT AAAGTGGGTA TCAATGGCAT CACGAGTTGT TCCAGCAACA GGACTAGC	AA 1200
TAACACGGTC TTCTCCCAAG ATAGCATTGA TCAAGCTTGA TTTTCCAACG TTAGGACG	AC 1260
CAATCAAGCT AAACTTAATG ACATCTGGAT TTTCTTCCTC ATATTCATTT GGAAGATT	TT 1320
CTACGATCGC ATCTAGCACA TCCCCTGTAC CGATTCCATG GACAGATGAG ATAGGCAA	TG 1380
GTTCACCCAA ACCGAGAGCA TAGAAATCAT ATATATCATT TCTCATCTCA	CA 1440
CCTTGTTGAC TGCGAGGATA ACTGGTTTGT GGGTCTTATA AAGCTTACGA GCTACGTA	TT 1500
CGTCTGCATC AGTAATTCCT TCCTTACCAG ACACGACAAA AACGATAACA TCTGCTTC	TT 1560

	CCATGGCAAT	TTCTGCCTGG	TGCTTGATTT	GTTCCATGAA	AGGAGCATCG	ACATCATCAA	1620
	TTCCTCCTGT	ATCAATCATG	CTAAAAGAAC	GATTGAGCCA	CTCACCCGTT	GCATAAATAC	1680
	GGTCACGTGT	CACTCCTTCG	ACATCTTCTA	CAATGGAGAT	TCGCTCACCA	GCGATCCGAT	1740
	TAAATAGGGT	TGATTTCCCA	ACATTGGGAC	GTCCTACAAT	GGCAATAGTT	GGTAGGGCCA	1800
	TAATTTCTCA	CTTTCTACAA	TAATTTCTTC	TGTTCAAGAT	TTTTTCTAGT	TGAGCTTGGT	1860
	TCAGCTTGAC	CAAACTGTTC	TGCTAGGCGC	TGACTCCAGC	TTGTGGTCGC	ACGCGCCCCA	1920
	GCATAGTCAG	CCTGAACACG	GTCATAAGCT	TGGATTGCCT	CAGTTGACTG	TTCTTGGTAT	1980
	TCTTCCTCAA	AGACAACATT	CTCTAGTGGC	AGTCTCGGTT	TCATATCATG	ATGTTGATTT	2040
	GGCACACCCA	GTGCCATCCC	AAAGACAGAA	TAGGTGTAGT	CAGGTAGGTT	AAAGAGCTCT	2100
	GCCACTTCTT	CAGACTTGTA	TCGAACCAAA	CCGATAATCA	CACCACCATA	GCCCAAGCTT	2160
	TCAGCTGCCA	ACAAGGCGTT	TTGTCCAGCA	AGAGCTGCAT	CGACCGAACT	AATCAAGAGA	2220
	CCTTCCACAC	CTTGGGGTTG	GAAGGTGTCG	GTATGAAGTC	GGGCTCCCTT	TTCTGCTCGG	2280
	TTCAAATCTC	CGACAAAGAG	AAGGAAAACA	GCAGACTGGC	GAATGGCTTC	TTGAGGTACC	2340
	AATTCATACA	AGGCATCTTT	CTTCTCTTGA	CTTCGTACCA	CAATCACAGA	GTAGGATTGG	2400
	AAATTCTTCC	AAGATGATGC	CATCTGGGCT	GCTGTCAAAA	TCTCATTTAA	GTCTACTTGG	2460
	GGAATTTCTT	GCTCTTTAAA	CCTGCGCACT	GAAGTATGAG	CCTTCATCAA	TTTAATGGTT	2520
	TCTGTCATCG	ACGGTTTACT	CCTTCTAAAC	GAGTCTCCTC	AGCCAAATAA	CGGATGCGTT	2580
	CCATGACCCG	TCTGGCTTCC	CAGGTTTCGT	CATTTCCATG	TTTCACTTTC	GCAAAATGCT	2640
	TCTCCAAATC	TTCAAAGTTG	AAGTTGGATG	TGAAAAAGGT	CGGTAAATTT	TCCTGCATCC	2700
,	GATATTGGAG	AATGACCTGC	AGGATTTCGT	CACGCACCCA	AACGGTTGAT	TGCTCGGCGC	2760
	CAATATCATC	TAAAATCAGG	ACCTCAGACA	GCTTAATCTC	ATCCACCAAG	GTCTTAACAT	2820
,	TGCCATCACT	GATAGCATTT	TTGACATCAA	TGACAAAGCT	AGGATAGTGG	AGGAGAGTTG	2880
	ATGAAACACC	ACGTTTTTCT	GATAAATCAT	GAGCTAAGGC	CGCCACCATG	AAACTTTTAC	2940
,	CCACACCAAA	GTCTCCATAT	AAGTAAAGAC	CTTTTCGAAT	AGCTGGATAT	TGCTCCACGA	3000
	AGGCTAGTAG	СТТТТСАААА	ACTGGTAAGC	GCCCCAAATC	ATCCAAGTCA	ACTTGAGCCA	3060
,	AACTAGCTTT	CTTGAGACTG	GCTGGTAGAT	TGATTAACTT	GAGACGGTTC	TTAATAGCCG	3120
•	CTTCTTTTTC	AGCCGCGATT	AGCTCAGGAG	TTTCTTCATA	TGAAACATCT	GCATAACCAT	3180
(GATTCTTAAC	CAAAATCGGC	TTGTAGCCTT	TGGCAATATA	ATCCGTATCC	CCACGGAGAA	3240
,	ACTTGTCACG	CTCGGTGATG	TACTGATTAA	ACTTGGAGAT	ACTGCGATTT	AATTCCTTTG	3300

636 GAGTTAAGGA TTCTTGCTGG ATAAAGGCCG CAACATCAGG GTCCTTCATG ATTTTCTGGA 3360 CCAAATCTTG ATAATAAAAA CGGCTGGGTT GACGTTTGAG TACGTCTCCG ACACTTTCCA 3420 TCTAATCTCC TCCTTTTTCT AATCGAGCTA ATAGTTCTTG CTTCTTACGT TCTAGTTCCA 3480 GACGAGTTTC CTCGCTGGTT TCATTCTTAT ATTCAGGATT ACTCCATTTA GGAACATTGG 3540 TTTTTTCTGG GGCAGTCTGA TTCTGTTTTT GTGTTTTTGC TTTCTGCCCT CGATCACGAA 3600 TTCGTAAAAC GGCCTCTTCT GCCGAATGAA TCTTTTGATA GGCATAGTCA TTGGCTACCT 3660 TCATGGCATA TTTCTCATTG ATATTTGCCG AATCCACCTT ATTAAAGGTC AATAAGAGAA 3720 TAATATTGAT GACTTCGTCC AGTAAGCCCA AGCCAGCCAT CTGTTGCAAG AGTTCTCTTT 3780 CTGTTTGGGT AATGGTTCCC TTGCGTGTTT GCTTGATTTC TGCTAAGAAC TGCAGGGCAG 3840 TTTTACTTTT AGCTTCTTTG ATAATGGTCG CTTCCTTAAG ACTAAAGTCA GAGGAAACTG 3900 GTTTTTGAGC AATTTTTCA CGCATGCGTT TGGTTGAAAT AACCTGGGAA ACAGCTGTTG 3960 ACTTGGCCAA TTGATAGGTT TCAAACCAAG TCCATTTCTT CTCCTCGGCA ATAGCAAAGA 4020 GGTTTAAGAC ATCGGACTGC TCATCCGCAA AACGAAGTCC ATCTCGAGCC ATCAGCTGGC 4080 GAAAATGTTC CAAGTCAAAA TCATTGGCCA CTTTCTTCTT GAGACCAAGG TCTTCTTGAC 4140 TGCCTAGTTC TGCCAATTCT GGAAAGACTT GATTGAGTGA GACAGGTATT TCTTCACCAT 4200 CAGCACTTTC AACTTTCAAA TCCTCCACAG CTACATCGCC AATCTTTTTC TCTAAGAGTC 4260 TGCGATAAAC AGGATGCCCC AAGAAGTCTT GACTAGATAG AGGAGCATGG AGGGCTAGCT 4320 GATAAACATC ACCCTTTTGA TAGAGGGTCA AGAGATTAAA AGCAGATAAG ATTTTCAATG 4380 ATTTTATCAG TCTATCCATC CCAAAGTTGA GATGGTTGAG AATGCTTGAA AAAAGATATT 4440 CCTTTCTACC ATTATCCCAA AAACTGATTG TATAAAGATA AAGGCTCAGT GCCTCCTGAC 4500 CGATAATCGG GAGGTAGCAC TGTACCAGAG ATGAGGTATC TTGCGACACC CGATTATTCT 4560 TTAGATAAGA AAAACGGTCA ATTGGCTTCA TTTATCTTTC CTTTTTCTTT TTAGAGGACT 4620 GGGTGATTTG TTGGAGCAAG CTCTCTAACT CACTGACATC CTTAAAACTA CGATAGACAC 4680 TAGCAAAACG TACATAGGTA ATCTCGTCCA ATTCAGCCAA CTCCTCCATG ACGAGTGAAC 4740 CAATGTCCTC ACTTTGAATT TCATTTTCAT TTCGACCACG GAGTTTCTGT TCGATACGAT 4800 TGACTACCAT GTTGATTTCA TCACTTGACA CAGGACGTTT CTGGGCTGAG CGGATAATCC 4860 CATTAAAGAT TTTATCTCTG GAGAATTGTT CCCGTGTGCC ATCTTTTTTA ACAACCACTA 4920 AGGTTCTTTC TTCTACTCGT TCGTAGGTTG TAAAACGGTG TTGGCATTCG TCGCACTCAC 4980 GTCTTCTACG AATGGTGTTC CCTTCTTCTG CTTGGCGACT ATCGATAACA CTTGACTTGG 5040 TAGCCCCACA TTTTGGACAG GGTACC 5066

PCT/US97/19588 WO 98/18931

637

(2) INFORMATION FOR SEQ ID NO: 80:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 9607 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 80:

CACTTGAAGT ATTTGAAACA	GCTATGGAAA	ACATCATGCC	TGTACTTGAA	GTACGTGCAC	60
GTCGTGTTGG TGGTTCTAAC	TACCAAGTCC	CAGTTGAAGT	TCGTCCAGAA	CGTCGTACAA	120
CACTTGGACT TCGTTGGTTC	GTAACAATCG	CTCGTCTTCG	TGGTGAACAC	ACAATGCAAG	180
ACCGTCTTGC AAAAGAAATC	TTGGATGCTG	CTAACAACAC	TGGTGCAGCA	GTTAAGAAAC	240
GTGAAGATAC TCACCGTATO	GCTGAAGCTA	ACCCTGCATT	CGCACACTTC	CGTTGGTAAG	300
ATAGGATGCG AAAGCGTTAA	GAAAGTCCCA	GAGAAAATAG	GGAATCGAAG	CAGGTTGCGG	360
TTGCAACCAA TGAGATTCAT	CTTTTTCTCC	AGACTTTTAG	CTTGAGCTCA	ACTAAATCAT	420
GATGCTAGGA ACGGTAAGGA	TGCAAGGTAA	AAATAGGAAA	CTGACGCAGT	ATTCGACGAA	480
TACAAGGAGT TTTATCTTT	TCACGCAGCA	TCCCGTTCCA	GCTCACATCG	GCTAACTAAC	540
TTTAGCCCGG GTTCAAATTA	GCTAAATCGA	TTAGTATTAG	СТАТААСТСА	GCTTACCATC	600
TCGTAAGTTG AAACCAACAA	TAGCATGAAA	ACATTGAGAA	CGGGTAGGTC	CTGCCTATCC	660
GTTTTTATTA AAATCGTGTT	ATAATAGAAT	AGAAATCAAA	AATAAATAGG	AGAAACAAAC	720
CTCATGGCAC GCGAATTTTC	ACTTGAAAAA	ACTCGTAATA	TCGGTATCAT	GGCTCACGTC	780
GATGCCGGTA AAACAACAAC	TACTGAGCGT	ATTCTTTACT	ACACTGGTAA	AATCCACAAA	840
ATCGGTGAAA CTCACGAAGG	TGCGTCACAA	ATGGACTGGA	TGGAGCAAGA	GCAAGAACGT	900
GGTATCACGA TCACATCTGC	TGCGACGACA	GCTCAATGGA	ACAACCACCG	CGTAAACATC	960
ATCGACACAC CAGGACACGT	GGACTTCACA	ATCGAAGTAC	AACGTTCTCT	TCGTGTATTG	1020
GATGGTGCGG TTACCGTTCT	TGACTCACAA	TCAGGTGTTG	AGCCTCAAAC	TGAAACAGTT	1080
TGGCGTCAAG CAACTGAGTA	CGGAGTTCCA	CGTATCGTAT	TTGCCAACAA	AATGGACAAA	1140
ATCGGTGCTG ACTTCCTTTA	CTCTGTAAGC	ACACTTCACG	ATCGTCTTCA	AGCAAATGCA	1200
CACCCAATCC AATTGCCAAT	CGGTTCTGAA	GATGACTTCC	GTGGTATCAT	TGACTTGATC	1260
AAGATGAAAG CTGAAATCTA	TACTAACGAC	CTTGGTACGG	ATATCCTTGA	AGAAGACATC	1320
CCAGCTGAAT ACCTTGACCA	AGCTCAAGAA	TACCGTGAAA	AATTGATTGA	AGCAGTTGCT	1380

638 GAAACTGACG AAGAATTGAT GATGAAATAC CTCGAAGGTG AAGAAATCAC TAACGAAGAA 1440 TTGAAAGCTG GTATCCGTAA AGCGACTATC AACGTTGAAT TCTTCCCAGT ATTGTGTGGT 1500 TCAGCCTTCA AAAACAAAGG TGTTCAATTG ATGCTTGATG CGGTTATCGA CTACCTTCCA 1560 AGCCCACTTG ACATCCCAGC AATCAAAGGT ATTAACCCAG ATACAGACGC TGAAGAAATT 1620 CGTCCAGCAT CTGACGAAGA GCCATTTGCA GCTCTTGCCT TCAAGATCAT GACTGACCCA 1680 TTCGTAGGTC GTTTGACATT CTTCCGTGTT TACTCAGGTG TTCTTCAATC AGGTTCATAC 1740 GTATTGAATA CTTCTAAAGG TAAACGTGAA CGTATCGGAC GTATCCTTCA AATGCACGCT 1800 AACAGCCGTC AAGAAATCGA CACTGTTTAC TCAGGTGATA TCGCTGCTGC CGTTGGTTTG 1860 AAAGATACTA CAACTGGTGA CTCATTGACA GATGAAAAAG CTAAAATCAT CCTTGAGTCA 1920 ATCAACGTTC CAGAACCAGT TATCCAATTG ATGGTTGAGC CAAAATCTAA AGCTGACCAA 1980 GACAAGATGG GTATCGCCCT TCAAAAATTG GCTGAAGAAG ATCCAACATT CCGCGTTGAA 2040 ACAAACGTTG AAACTGGTGA AACAGTTATC TCAGGTATGG GTGAACTTCA CCTTGACGTC 2100 CTTGTTGATC GTATGCGTCG TGAGTTCAAA GTTGAAGCGA ACGTAGGTGC TCCTCAAGTA 2160 TCTTACCGTG AAACATTCCG CGCTTCTACT CAAGCACGTG GATTCTTCAA ACGTCAGTCT 2220 GGTGGTAAAG GTCAATTCGG TGATGTATGG ATTGAATTTA CTCCAAACGA AGAAGGTAAA 2280 GGATTCGAAT TCGAAAACGC AATCGTCGGT GGTGTGGTTC CTCGTGAATT TATCCCAGCG 2340 GTTGAAAAAG GTTTGGTAGA ATCTATGGCT AACGGTGTTC TTGCAGGTTA CCCAATGGTT 2400 GACGTTAAAG CTAAGCTTTA TGATGGTTCA TATCACGATG TCGACTCATC TGAAACTGCC 2460 TTCAAGATTG CGGCTTCACT TTCCCTTAAA GAAGCTGCTA AATCAGCACA ACCAGCTATC 2520 CTTGAACCAA TGATGCTTGT AACAATCACT GTTCCAGAAG AAAACCTTGG TGATGTTATG 2580 GGTCACGTAA CTGCTCGTCG TGGACGTGTA GATGGTATGG AAGCACACGG TAACAGCCAA 2640 ATCGTTCGTG CTTACGTTCC ACTTGCTGAA ATGTTCGGTT ACGCAACAGT TCTTCGTTCT 2700 GCATCTCAAG GACGTGGTAC ATTCATGATG GTATTTGACC ACTACGAAGA TGTACCTAAG 2760 TCAGTACAAG AAGAAATTAT TAAGAAAAAT AAAGGTGAAG ACTAATCCGT CCTCACTCTA 2820 GAAGGAAGTC ACTTAGTGGC TTCCTTTTGT CTTTAGAAAA TACCTCTAAA TATGGTAAAA 2880 TAGTAGAAGA ATAATGTGAG GAAAATGAAT GTCAAATAGT TTTGAAATTT TGATGAATCA 2940 ATTGGGGATG CCTGCTGAAA TGAGACAGGC TCCTGCTTTA GCACAGGCCA ATATTGAGCG 3000 AGTTGTGGTT CATAAAATTA GTAAGGTATG GGAGTTTCAT TTCGTATTTT CTAATATTTT 3060 ACCGATTGAA ATCTTTTAG AATTAAAGAA AGGTTTGAGC GAAGAATTTT CTAAGACAGG 3120 CAATAAAGCT GTTTTTGAAA TTAAGGCTCG GTCTCAAGAA TTTTCAAATC AGCTCTTGCA 3180

GTCCTACTAT AG	GGAGGCTT	TCTCTGAAGG	TCCATGTGCT	AGTCAAGGTT	TTAAGTCCCT	3240
TTATCAAAAT TT	GCAAGTTC	GTGCTGAGGG	TAATCAGCTA	TTTATTGAAG	GATCTGAAGC	3300
GATTGATAAG GA	ACATTTTA	AGAAGAATCA	TCTTCCTAAT	TTAGCCAAAC	AACTTGAAAA	3360
GTTTGGTTTT CC	AACTTTTA	ACTGTCAAGT	CGAGAAGAAT	GATGTCCTGA	CCCAAGAGCA	3420
GGAAGAGGCC TT	CATGCTG	AAAATGAGCA	GATTGTTCAA	GCTGCCAATG	AGGAAGCGCT	3480
CCGTGCTATG GA	ACAACTGG .	AGCAGATGGC	ACCTCCTCCA	GCGGAAGAGA	AACCAGCCTT	3540
TGATTTTCAA GCC	GAAAAAAG	CTGCAGCTAA	ACCCAAGCTG	GATAAGGCGG	AGATTACTCC	3600
TATGATCGAA GTO	GACGACAG .	AGGAAAATCG	TCTGGTATTT	GAAGGGGTTG	TTTTTGATGT	3660
GGAGCAAAAA GTO	GACTAGAA	CAGGTCGTGT	TTTAATCAAC	TTTAAAATGA	CGGACTATAC	3720
TTCAAGTTTT TC	ratgcaaa .	AGTGGGTTAA	AAACGAGGAA	GAGGCCCAGA	AGTTTGACCT	3780
CATCAAGAAG AA	TTCTTGGC	TCCGAGTTCG	AGGGAATGTG	GAGATGAATA	ACTTCACACG	3840
CGATTTGACT ATO	GAACGTAC	AGGATCTGCA	GGAAGTTGTT	CACTATGAGC	GGAAGGATTT	3900
GATGCCAGAA GG	rgagcgtc (GGGTTGAGTT	TCATGCTCAT	ACTAACATGT	CGACTATGGA	3960
TGCTTTGCCA GAC	GTCGAAG	AGATTGTTGC	AACAGCTGCT	AAGTGGGGAC	ACAAGGCGGT	4020
TGCTATCACG GAG	CCATGGGA 2	ATGTCCAGTC	CTTTCCACAT	GGCTATAAGG	CGGCTAAGAA	4080
AGCGGGAATC CAC	ECTGATCT A	ATGGGATGGA	AGCCAATATC	GTGGAGGACC	GTGTCCCTAT	4140
CGTCTATAAC GAA	AGTGGAGA	TGGACTTGTC	AGAAGCAACC	TACGTGGTCT	TTGACGTGGA	4200
AACGACGGGA CTT	TTCAGCTA	TCTATAATGA	CTTGATTCAG	GTTGCGGCTT	CTAAGATGTA	4260
CAAGGGGAAT GTT	TATTGCTG	AATTTGATGA	ATTTATCAAT	CCTGGGCATC	CCTTGTCAGC	4320
CTTTACTACA GAC	GTTAACTG (GAATTACAGA	TGATCATGTC	AAAAATGCCA	AACCACTAGA	4380
ACAAGTTTTG CAA	AGAATTCC A	AAGAATTTTG	CAAGGATACG	GTCCTAGTTG	CCCACAATGC	4440
TACCTTTGAC GTT	GGCTTTA 1	TGAATGCTAA	TTATGAGCGG	CATGATCTTC	CAAAGATTAG	4500
TCAGCCAGTT ATT	GATACGC '	TGGAGTTTGC	TAGAAACCTC	TATCCTGAGT	ATAAACGCCA	4560
TGGTTTGGGG CCT	TTGACCA A	AGCGTTTTGG	TGTGGCCTTG	GAACATCACC	ACATGGCCAA	4620
CTACGATGCG GAA	GCGACTG (GTCGTCTGCT	TTTCATCTTT	ATCAAAGAGG	TAGCAGAAAA	4680
ACATGGTGTG ACC	GATTTAG (CTAGACTCAA	CATTGATCTA	ATCAGTCCAG	ATTCTTACAA	4740
AAAAGCTCGG ATC	CAAGCATG (CGACCATCTA	TGTCAAGAAT	CAGGTAGGTC	ТАААААТАТ	4800
CTTTAAGCTG GTT	TCCTTGT (CTAATACCAA	GTATTTTGAA	GGAGTGCCAC	GGATTCCGAG	4860
AACGGTTCTA GAT	GCCCATC (GAGAGGGCTT	GATTTTAGGT	TCAGCCTGTT	CAGAGGGTGA	4920

AGTTTTTGAC	GTGGTCGTTT	CTCAAGGTGT	640 GGATGCGGCG	GTTGAGGTGG	CCAAGTATTA	4980
TGATTTTATC	GAGGTCATGC	CACCGGCTAT	CTATGCACCC	TTGATTGCCA	AAGAGCAGGT	5040
CAAGGATATG	GAGGAACTCC	AGACCATTAT	CAAGAGTTTG	ATAGAGGTTG	GAGACCGCCT	5100
TGGCAAGCCT	GTTCTGGCTA	CGGGAAATGT	TCACTATATC	GAACCGGAAG	AAGAGATTTA	5160
TCGTGAAATT	ATCGTCCGTA	GTTTGGGACA	GGGTGCGATG	ATTAATCGAA	CTATCGGTCA	5220
TGGTGAACAT	GCCCAACCAG	CACCACTTCC	AAAGGCTCAT	TTTCGAACGA	CTAATGAGAT	5280
GTTGGATGAA	TTTGCCTTTT	TGGGAGAGGA	ACTGGCTCGT	AAACTGGTTA	TTGAAAACAC	5340
CAATGCCTTG	GCAGAAATAT	TTGAATCCGT	TGAAGTCGTT	AAGGGTGACT	TGTATACGCC	5400
TTTCATCGAC	AAGGCTGAAG	AAACAGTTGC	TGAGTTGACC	TATAAGAAAG	CTTTTGAGAT	5460
TTATGGAAAT	CCGCTGCCAG	ATATTGTTGA	TTTGCGGATT	GAAAAAGAAT	TAACATCCAT	5520
ACTGGGGAAT	GGATTTGCTG	TGATTTATCT	GGCATCGCAG	ATGCTGGTGC	AACGTTCTAA	5580
TGAACGGGGT	TATTTGGTTG	GTTCTCGTGG	GTCTGTCGGA	TCTAGTTTCG	TTGCGACCAT	5640
GATTGGGATT	ACGGAGGTCA	ATCCTCTCTC	TCCTCACTAT	GTCTGTGGTC	AGTGTCAGTA	5700
CAGTGAGTTT	ATCACAGATG	GTTCGTACGG	TTCAGGATTT	GATATGCCCC	ATAAGGACTG	5760
TCCAAACTGT	GGTCACAAAC	TCAGTAAAAA	CGGACAGGAT	ATTCCGTTTG	AGACCTTCCT	5820
TGGTTTTGAT	GGGGATAAGG	TTCCTGATAT	TGACTTGAAC	TTCTCGGGAG	AAGATCAGCC	5880
TAGCGCCCAC	TTGGATGTGC	GTGATATCTT	TGGTGAAGAA	TATGCCTTCC	GTGCGGGAAC	5940
GGTTGGTACG	GTAGCTGCCA	AGACTGCCTA	TGGATTTGTC	AAAGGTTACG	AGCGAGATTA	6000
TGGCAAGTTT	TATCGTGATG	CAGAAGTAGA	ACGCCTCGCT	CAAGGAGCGG	CGGGTGTCAA	6060
GCGGACAACA	GGCCAACACC	CGGGGGGAAT	CGTTGTTATT	CCGAACTACA	TGGATGTCTA	6120
CGATTTTACG	CCTGTCCAGT	ATCCAGCAGA	TGATGTCACG	GCTGAATGGC	AGACCACTCA	6180
CTTTAACTTC	CACGATATCG	ATGAGAACGT	CCTCAAACTC	GATGTACTGG	GACATGATGA	6240
TCCGACTATG	ATTCGAAAAC	TTCAGGATTT	GTCTGGTATT	GACCCTAATA	AAATTCCTAT	6300
GGATGACGAA	GGCGTGATGG	CACTCTTTTC	TGGGACTGAT	GTGCTAGGGG	TAACACCTGA	6360
ACAAATTGGA	ACGCCTACGG	GTATGTTGGG	GATTCCAGAG	TTTGGAACAA	ATTTCGTACG	6420
TGGAATGGTA	GACGAAACCC	ATCCGACAAC	CTTTGCGGAA	TTGCTTCAGC	TGTCTGGTCT	6480
GTCCCACGGT	ACTGATGTTT	GGTTGGGGAA	TGCTCAGGAT	CTGATTAAGC	AAGGAATAGC	6540
GGACCTATCG	ACTGTTATCG	GTTGTCGGGA	CGACATCATG	GTTTACCTCA	TGCATGCGGG	6600
TCTGGAACCT	AAGATGGCCT	TTACCATTAT	GGAACGGGTA	CGTAAGGGTT	TGTGGCTAAA	6660
GATTTCAGAA	GAGGAGAGAA	ATGGCTATAT	CGAAGCAATG	AAGGCTAATA	AGGTGCCAGA	6720

GTGGTATATC	GAATCCTGTG	GGAAAATTAA	GTACATGTTC	CCTAAGGCCC	ATGCGGCAGC	6780
CTACGTTATG	ATGGCCTTGC	GTGTAGCTTA	CTTCAAGGTT	CACCATCCTA	TTTATTACTA	6840
CTGTGCTTAC	TTCTCCATTC	GTGCTAAGGC	TTTTGATATC	AAGACCATGG	GTGCGGGCTT	6900
GGAGGTCATC	AAGCGCAGAA	TGGAAGAAAT	CTCTGAAAAA	CGGAAGAACA	ATGAAGCCTC	6960
TAATGTGGAA	ATCGATCTCT	ATACAACTCT	TGAGATTGTC	AATGAGATGT	GGGAACGAGG	7020
TTTCAAGTTT	GGTAAATTAG	ATCTCTACTG	TAGTCAGGCG	ACAGAGTTCC	TCATCGACGG	7080
GGATACCCTT	ATCCCACCAT	TTGTAGCAAT	GGATGGTCTG	GGAGAGAACG	TTGCCAAGCA	7140
ACTGGTGCGG	GCGCGTGAAG	AGGGAGAATT	CCTCTCTAAA	ACAGAACTAC	GCAAGCGTGG	7200
TGGACTCTCA	TCAACCTTGG	TTGAAAAGAT	GGATGAGATG	GGTATTCTTG	GAAATATGCC	7260
AGAGGATAAC	CAGTTGAGTT	TGTTTGATGA	GTTGTTTTAA	AAAATTGCTT	AATAATCTAT	7320
TAAAAGAGGC	TAACGTATAT	CCAATAGATT	TACATTAGCT	TTCTTTTTTG	TTAAAATAGT	7380
CTATGGAAAG	AGGGTGAGAG	TATGTCAAAG	ATGAGTATAA	GCATCCGTCT	GGATAGTGAG	7440
GTTAAGGAGC	AGGCCCAACA	GGTGTTTAGT	AATCTGGGAA	TGGATATGAC	AACAGCTATT	7500
AATATTTTCC	TTCGTCAGGC	AATTCAATAT	CAGGGATTAC	CTTTTGATGT	TAGACTAGAC	7560
GAAAATCGGA	AGTTGCTCCA	AGCGTTAACG	GATTTAGACC	AAAATCGTAA	TATGAGCCAG	7620
TCTTTTGAAT	CAGTCTCAGA	TTTGATGGAG	GACTTACGTG	CTTAAGATTC	GTTATCATAA	7680
ACAGTTTAAA	AAAGATTTTA	AGTTGGCTAT	GAAGCGTGGT	TTGAAGGCAG	AATTATTAGA	7740
AGAAGTTTTG	AATTTTCTGG	TTCAAGAAAA	AGAACATCCT	GCCAGAAATC	GTGATCATTC	7800
ATTGACGGCA	TCCAAGCATT	TTCAAGGAGT	TCGTGAATGC	CATACCCAGC	CAGATTGGCT	7860
TTTGGTTTAT	AAAGTAGACA	AGTCGGAATT	GATTTTAAAT	TTGCTGAGGA	CAGGCAGTCA	7920
CAGTGATTTA	TTTTAATCTA	TTTTAAGGGG	GTTCTCATGA	AACTAAGAAT	ATTTGCGGAA	7980
GATAAGCCGG	CTAAGAAGGT	ATTTGAATAT	CAATTAGAAC	TTGCTGATCG	TACAATTCTT	8040
CTATCGACAG	CACTCTTGTC	AGGTGCTATT	GCTTTAGCAG	GAATCTTTTC	TGCTTTGAAA	8100
GAAAAATAAA	AATAGAAAAG	AGAAAACAGA	ATGGTTTTAC	CAAATTTTAA	AGAAAATCTA	8160
GAAAAATATG	CGAAATTGTT	GGTTGCGAAC	GGAATTAACG	TGCAACCTGG	TCACACTTTG	8220
GCTCTCTCTA	TTGATGTGGA	GCAACGTGAA	TTGGCACATC	TAATCGTGAA	AGAAGCTTAT	8280
GCCTTGGGTG	CGCATGAGGT	CATCGTTCAG	TGGACAGATG	ATGTGATTAA	CCGTGAGAAA	8340
TTCCTCCATG	CCCCGATGGA	GCGTTTGGAC	AATGTGCCAG	AATACAAGAT	TGCTGAGATG	8400
AACTATCTCT	TGGAGAATAA	GGCTAGCCGT	CTTGGAGTTC	GTTCATCTGA	TCCAGGTGCC	8460

			642			
TTGAACGGAG	TGGACGCTGA	CAAGCTTTCA		AAGCTATGGG	ACTTGCCATG	8520
AAGCCTATGC	GTATCGCAAC	TCAATCTAAC	AAGGTTAGCT	GGACTGTAGC	AGCTGCAGCA	8580
GGACTTGAGT	GGGCTAAGAA	AGTCTTCCCA	AATGCTGCGA	GCGACGAAGA	AGCAGTTGAT	8640
TTCCTTTGGG	ACCAAATTTT	CAAAACTTGC	CGTGTCTACG	AAGCAGATCC	TGTTAAGGCT	8700
TGGGAGGAAC	ATGCAGCCAT	TCTCAAGAGC	AAGGCCGATA	TGCTTAATAA	GGAGCAATTT	8760
TCAGCCCTTC	ACTACACAGC	GCCAGGAACA	GATTTAACAC	TTGGTTTGCC	AAAGAACCAC	8820
GTTTGGGAAT	CAGCTGGTGC	TGTCAATGCA	CAGGGCGAAG	AATTCTTGCC	AAATATGCCA	8880
ACAGAAGAGG	TCTTCACAGC	GCCTGACTTC	CGTCGTGCAG	ATGGTTATGT	CACTTCTACA	8940
AAACCGCTTA	GCTACAACGG	AAATATCATT	GAAGGCATTA	AGGTGACCTT	TAAGGATGGA	9000
CAAATCGTAG	ATATCACTGC	TGAGAAGGGT	GATCAGGTTA	TGAAAGACCT	TGTCTTTGAA	9060
AATGCGGGTG	CGCGTGCCTT	GGGTGAATGT	GCCTTGGTAC	CAGATCCAAG	TCCAATTTCT	9120
CAGTCAGGCA	TTACCTTCTT	TAACACCCTT	TTCGATGAAA	ATGCGTCAAA	CCACTTGGCT	9180
ATCGGTGCAG	CCTATGCGAC	TAGCGTTGTT	GATGGAGCGG	AGATGAGCGA	AGAGGAGCTT	9240
GAAGCTGCAG	GGCTTAACCG	TTCAGATGTT	CACGTAGACT	TTATGATTGG	TTCTAACCAA	9300
ATGGATATCG	ATGGTATTCG	TGAGGATGGA	ACGCGGGTAC	CTCTTTTCCG	TAATGGGAAT	9360
TGGGCAAATT	AAGGAGATAA	TATGTTAGGA	AGTATGTTCG	TTGGTCTCCT	AGTGGGATTT	9420
TTAGCAGGTG	CTATGACCAA	TCGTGGAGAG	CGAATGGGAT	GTTTTGGAAA	AATGTTTCTC	9480
GGTTGGATCG	GAGCCTTTCT	AGGTCACTTG	CTCTTTGGAA	CTTGGGGGCC	AGTTTTATCA	9540
GGAACAGCTA	TTATCCCAGC	GATTTTAGGA	GCCATGATTG	TTTTAGCTAT	TTTTTGGAGA	9600
CGAGGAA						9607

(2) INFORMATION FOR SEQ ID NO: 81:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14231 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 81:

CTACAAGATA	ATTCCAGCTA	TAACATCCGC	TATAATAGTA	AGAGCGAGCT	CTATGATAAG	60
GCTCATTAGT	TTCACCTCCT	CTCACGAACC	CATAGGAACG	TAATCGGTAA	CCGATGACAA	120
AAATAGTATA	CCACAATACA	TTTAGATCAT	CAAGGTCACT	TAATTCTTGA	AATATCAGAT	180
CTAAGAGAAA	AATCTTTAAA	ATCAGAAAAA	CGCATAATAT	CAGGTGTGCA	AAAACTTGAT	240

ACTATGCGTT	TTATTGTGGG	AAGGTTTACT	CCATTTTCTC	CTGAAATTGA	GTTTTTGTCC	300
AGCCTCTGTT	TTTAGGGTTG	CTAAGAAAAT	AATGTCATGT	GGTGAATATT	TGTAAATCAG	360
TCAGCAGACA	GAACGATACT	CTTCGAAAAT	CTCTTCACAT	CATGTCAGCT	TCGTCTTTCC	420
GTATATATGT	GACTGACTTC	ATCAGTTCTA	TCTACAACCT	CAAAACAGTG	TTTCGAGCTG	480
ACTTGATCAA	TTTTCAAATC	TGTACTTTGA	GCAAGCTGAG	ACTAGCTTCC	TATTTGATTT	540
TCATTGAATA	TCAGAAACCC	ATTCTCCATC	AAATAATTCG	ACTGCGTCTA	ATAATTTTTG	600
ATCTGGCACG	GTGTCTGAAA	TAAAGGTTGT	GTATTTGGAG	AGGGGATTAA	TTTTAAAAAA	660
TCCAGTCTTG	TAAAATTTAG	AACTATCAAT	CAGTAAGATG	GTTTCATGGG	CTTTGTCAAT	720
AATATTCTTT	TTTGAAATAG	CTTGGCTGAG	AGAAGCTTCA	TAAACATATT	GGTCATCAAT	780
ACCTCTTGCT	GAACAAAATG	CTAAATCGAT	ATTAAAATGA	TCTAATAAAG	AATTTTCCTT	840
ATCATAGTTG	ACCACGGAAC	AGGATTGATG	TTTGACCTCG	CCAGATGTGA	TAAAGATTTT	900
GGAGCTATCT	TTAACAGTTT	CAGATAGGGT	TTGTGCAGTA	TGTAAACCAT	TTGTAAAAAT	960
AATCAAATTA	TCAAGTTCAG	AAAGATAGGG	ACAGAGTTCG	TAGACAGTAG	TACTAGAATC	1020
TAGATAGATA	CACATACCAG	ACCGAATAAA	GTCTTTAGCG	AGACTAGCGA	TTAGTCTTTT	1080
TTGCCTAGTA	CTTTCTCCTT	CACGTATTTG	ATGAGAAAGT	TCAATTGTGT	TCATAGAGGA	1140
CAGGGTCACG	TATCCGTGCT	TTCTTTTGAT	AAGACCTTGA	TTTTCTAAGA	AAATTAAATC	1200
ACGACGTAAG	GTACTTGTGC	TGGAGAAAGT	GATTTCTGCC	AGCTCTTTTA	CGGCAATTCT	1260
TTTTTTCTTT	TTGATAATTT	CAATCAATTC	AAGTACACGT	TCATCTTTTA	TCATAAGCTC	1320
CTCCTAATTT	ATCATTTCAA	CTATATTATA	GCACAAATTG	GAGGAATTTG	AATTATTTTT	1380
ATGAATATTG	GGTTAACATT	TGAACATTAT	TCAAGTAAGC	GTTCACATAT	TGAAAAAATA	1440
AAACGTGGGG	АТТАТААТАА	AGTTAATCMA	GGACGAAGAG	AGAAGAAAAA	TGGAAGCGGT	1500
TTTAGCAATA	GATTTAGGTG	CGACTTCTGG	AAGAGCAATC	GTTGGTTACC	TTTCTGAAAA	1560
TAAACTAGTA	ATGGAAGAAA	TAAATCGCTT	TTCTAATCTA	CCTATTAGAG	TAAAAGGGCA	1620
TTTATCTTGG	GATATTGACT	TTCTACTAGC	TAAAATTCTT	GAAAGTATCC	GCTTGGCTAA	1680
TACTAGTTAC	AAGATTTTAT	CTATCGGTAT	TGACACATGG	GGAGTTGATT	TTGGACTGAT	1740
TGATAATGAA	GGTAAGCTGT	TATTACAACC	TGTTCATTAT	CGTGATGAAA	GAACAAAGGG	1800
AGTGTTAAAG	GAAATATCTG	AAATGACTGA	ATTAGAAAAA	CTGTATTCAG	AGACAGGAAA	1860
TCAGATTATG	GAGATAAATA	CCTTGTTTCA	ACTCTTTAAG	GCACGTCAAG	AATCTCCTGA	1920
CTCTTTCTAT	AAGACCAATA	AGATTCTTTT	AATGCCAGAT	TTGTTTAATT	ATCTCTTGAC	1980

644

AGGTAAGTTT GCTACAGAAA AAAGCATTGC TTCAACAACT CAATTATTTG ATCCTAGGAG 2040 TCAAAATTGG AATCAGAATA TCTTAAAACT ATTTGAATTG GATTCATCTT TACTTCCTGA 2100 AATTGTTTCA GAGGGAAATG TTCTTGGAAG GATAAAAGAG GAGTATGGTT TAGGCGATAT 2160 TCCTGTTGTG AATGTTTGTA GTCATGATAC AGCAAGCGCG ATTGTCTCAG TACCTAAGAC 2220 AGAAGGTAGT TTATTTATTT CATCAGGTAC TTGGTCTTTG GTTGGAGTGG AACTTACTTC 2280 ACCGATTCTT ACTACCGAAT CCTTCAGTTA TGGATTTACA AATGAAGTCG GTAAAGATGG 2340 AGTGATTACA TTTCTGAAGA ATTGTACAGG GTTGTGGATC ATAGAGGAAC TAAGACGTTC 2400 ATTTGAACGA AGAGGGAAAG CCTATTCTTT TGATGATATT AGGACAATGG TGGAGAAAGA 2460 AAAAGAAAAT CTTCCTCTGA TTGATACTGA ATCAACTGAA TTTGCAACAG AATCTGATAT 2520 GCACAAGACT TTGACAGAAT ATCTAGCTTA TCATCATGAA ACTAGAGAGT GGACAGATGG 2580 ACAACTATTT AAGATTGTTT ATGAAAGCCT AGCTGAAACG TATAGGAAAG CGATAGAGTT 2640 ACTAGAAGAA CTAACTCATA AGGTTTATAA GAGGATATAT GTGATTGGAG GAGGTGCTAG 2700 AGCCAGTTAC TTTAACCAAA TGATTGCTGA TAGAACTGGT AAAGAGGTTC TTACAGGTTT 2760 GACTGAGGCT ACAGCTGTGG GGAATATTGT TGTGCAGCTC ATAGCTATGG GACAATTAAA 2820 AGGGATGGAA GAGGCTCACC ATGTTATTGA GGAGTTTCTA CAATTAGAGA GTTATTACTC 2880 CCAAAAGAAT TAAAAAGATT GAGAGTTTGT AAATTTGCCT CCCTCCCCCT TCTTAGCTTT 2940 TGTGCAGGAA GGGGGGATAA TTGGTGAATT GAAAAATATT TAGTGTTTTG ATATGAGGAG 3000 GACAAGGATG TCAGATGTAA AACAAGAATT AATTAAATAT GGTAAGAAGC TAGTAGAAAC 3060 AGATTTGACG AAAGGAACAG GTGGGAATCT CAGCGTTTTC GATCGTGAAA AACAATTGAT 3120 GGCAATTACC CCGTCGGGTA TTGATTTCTT TGAAATCAAA GAATCCGATA TTGTAGTGAT 3180 GGATATTAAT GGAAATGTTG TAGAGGGAGA ACGCTTGCCA TCTAGCGAAT GGTATATGCA 3240 TTTGATTCAA TATCAAACTC GTGATGATAT CGATGCAATT ATCCATGCTC ATACAACTTA 3300 TGCAACAGTA TTAGCTTGTC TCAGAGAACC ACTTCCAGCG AGTCATTATA TGATTGCAGT 3360 GGCAGGGAAA GATGTTCGGG TAGCTGAGTA TGCAACATAT GGCACGAAAG AATTGGCTGT 3420 GAATGCAGCT AAAGCAATGG AAGGTCGTAG AGCAGTTTTA CTAGCGAATC ATGGAATTTT 3480 AGCAGGTGCA CAAAATTTAT TGAATGCATT TAATATTGTT GAAGAAGTTG AATATTGTGC 3540 AAAAATTTAT TGTTTAGCTA AGAATTTTGG AGAGCCAGTA GTTCTTCCTG ATGAGGAGAT 3600 GGAATTGATG GCAGAAAAAT TTAAAACATA CGGTCAGAGA AAATAGGGAG GATATTAATG 3660 TTAAAACATA TACCGAAAAA TATTTCTCCA GATTTATTGA AGACTTTAAT GGAAATGGGA 3720 CATGGAGATG AAATAGTATT AGCTGACGCG AATTATCCTT CTGCCTCATG TGCAAATAAG 3780

CTAA	TTCGTT	GTGATGGTGT	AAATATTCCA	GAATTATTAG	ATTCCATTCT	GTATTTAATG	3840
CCAT	'TAGATA	GTTACGTCGA	TAGTTCAATT	CAGTTTATGA	ACGTTGTTTC	GGGTGATGAT	3900
ATTC	CTAAGA	TATGGGGTAC	CTATAGACAG	ATGATTGAAG	GTCATGGTAC	AGATCTTAAA	3960
ACGA	TTACTT	ATCTTAGAAG	AGAAGACTTT	TATGAACGTA	GTAAGAAAGC	TTATGCTATT	4020
GTTG	CTACAG	GAGAAACTTC	ACTTTATGCT	AATATTATCC	TTAAGAAAGG	AGTAGTTGTT	4080
GAAA	.GAGAAA	ATGTTCAATA	GAGGAATTTT	AGTTGCCAGT	CATGGTAATT	TTGCTAGCGG	4140
AGCT	CTCATG	ACCGCAGAAA	TGTTTGTTGG	TGAGACAACA	AATGATAGAG	TTAGGACATT	4200
AGGT	TTGATG	CCTGGAGAGA	ATATTGTAGA	GTTTGAGCAT	TATTTTAAAA	ATCAAGTGGA	4260
TGAA	CTGTTA	GACTCAAATC	AAGAGGTTAT	CGTTTTGACT	GACTTGATTG	GAGGAAGTCC	4320
TAAT	AATGTG	GCTTTGTCAC	GGTTTTTAAA	TTTGGATTCA	GTTGATATTG	TAACAGGGTT	4380
TAAT	ATCCCT	CTCCTAGTGG	AATTAATATC	AAGTTATGAT	TCAAAAATCA	ATTTAGAAGA	4440
AATT	GTTCAC	AATGCTCAAA	ATAGTTTGTT	TAATGTTAAA	CAACAACTTA	ACGTAGAGGA	4500
GGAA	GAAGAT	TTATGTCTAT	AGAGTTTGTT	CGTATTGATG	ACCGTCTGGT	ACATGGTCAA	4560
GTTG	TCACTA	CGTGGCTAAA	AAAGTATGAT	ATTGAGCAAG	TTATCATTGT	TAATGATCGC	4620
ATCT	CAGAAG	ATAAAACACG	ACAATCTATT	TTAAAGATTT	CTGCACCGGT	AGGTTTAAAA	4680
ATTG	TTTTCT	TTAGTGTAAA	ACGGTTTGTG	GAAGTTTTAA	ACTCTGTGCC	AATAAAAAG	4740
AGAA	CAATGC	TGATATATAC	AAATCCAAAA	GATGTGTATG	ATTCTATTGA	AGGAAATTTA	4800
AAAT	TGGAGT	ACCTCAATGT	AGGACAGATG	AGTAAAACGG	AGGAAAATGA	AAAGGTAACG	4860
GGAG	GTGTAG	CTCTAGGTGA	AGAAGACAAA	TATTATTTTA	AGAAAATAGT	TGATAAGGGA	4920
ACGA	GAGTTG	AAATTCAAAT	GGTTCCTAAT	GATAAAGTTA	CAATGTTGGA	AAAATTTTTA	4980
TAAA	AATAAT	TTAAGGAGGT	ACAGTATATG	CTATTCACAC	AAGCATTACT	GGTGACATTA	5040
GTTG	GGATTA	TTGCCACTAT	TGACTATAAT	GGACCGTTAT	TTATGATTCA	CCGTCCGTTA	5100
GTTA	CAAGTG	CAATGGTTGG	CTTAGTATTA	GGAGATTTCA	CCCAAGGTGT	TCTTATTGGT	5160
TCAG	CTCTTG	AATTAACTTG	GCTCGGTGTA	ACAGGTATTG	GAGGTTATAC	TCCACCAGAT	5220
ACTA	TTTCAG	GTGCGATTAT	TGGTACTGCA	TTTGGTATTT	TATCTGGTCA	AGGAGAAACT	5280
GCTG	GTATCG	CTATAGCAGT	TCCAATTGCA	GTTGCTACCC	AACAGTTGGA	TGTTCTTGCA	5340
AAAA	CTTTAG	ATGTTTATTT	TGTGAAAAA	GCTGATAATG	ATGCTAAAAA	CGGAGATTAT	5400
TCAA	AGATCG	GTTTTTATCA	TTATTCAAGT	TTGGTTTTAA	TCACGTTATT	TAAAATTGTA	5460
CCAA	TTTTCC	TAGCTATTAT	GCTTGGAGGG	GAATATGTGG	CAGACTTGTT	TGCTAAGGTT	5520

CCACCAATCG	TTATGCAGGG	ACTTAACTCT	646 GCAGGTGCTT	TACTACCTTC	AATTGGTTTT	5580
GGTATGCTTT	TAAATATGAT	GCTCAAGAAA	AATATGTGGG	TATTCTTGTT	GATTGGATTC	5640
ATTTGTTCTG	TGTATGGAGG	AATGTCAACC	ATTGGGATCT	CACTAGTTGG	TATTGCGGTA	5700
GCATACTTCT	ACGATATGAT	TGGAAGCAAA	CCACAAGAAA	CAACTTCAAG	TAGTGATGTT	5760
GAGGAGGATC	TTGATCTATG	ATGAATAATA	AAGTAACTAA	AGTTGAACTT	AAAAAAGTTT	5820
TCAAACGAAG	TTTTATGTAT	GGTTCTTCAT	GGAACTATGA	GAGAATGCAG	AACCTAGGTT	5880
TTCTATATAC	AATTCTTCCA	GTATTGAAAA	AACTATACCC	AGACAAAGAT	TCAGCTTCTC	5940
CTGCAATGAA	ACGTCACCTT	GAGTTTTTCA	ATACTCATCA	AACAGCGGCA	CCATTTATTC	6000
TTGGAGTTAC	TTCCGCTATG	GAAGAACAAG	AAGGAAATGA	AGGTGCAGCT	TCAATTACTG	6060
GTATTAAAGT	TGGCTTGATG	GGGCCACTGG	CTGGTCTAGG	AGATAGTTTG	TTCTGGCTGA	6120
CACTAGTTCC	TATCTGTTTT	AGTATTGGTG	CGTCTTATTC	TAAAGACGGC	GGTGCTTTAG	6180
GTATCTTTAT	CGCCTTAATA	TTGTTTAATA	ТТАТТААТАТ	TCCTGTTAAA	TATTTCGGTT	6240
TGAAATATGG	GTATACTAAG	GGTTCTAGTC	TTATCCAAGA	AAATAATACA	AAAGGAACAT	6300
TGAATCGCGT	TACGAGTATG	GCGACAGCAT	TAGGGCTAGT	ACTAGTGGGT	GGTTTGATTC	6360
CATCAATGGT	TGGTATTAAT	TTTGGATTAG	AATTTAAGCA	GGGGGAACTT	GTTATTTCTG	6420
TTCAAGAAAT	GATTACAAAA	TTAATTCCAG	GATTTATCCC	TATGGCTTTG	ACTTTATTAA	6480
TGTGTAAATT	AATTAGAAAA	GGAAAGAATC	CGGTTGTACT	AATCTTTAGT	GTTATGGCTA	6540
TTGGAGTTAT	TCTAGTTGTT	TTAGGAATTT	TGAAGTAGTA	GAAAGTGTGG	AGGTGGTATT	6600
TGGGATATCA	CCTCCATTTT	GGAAGAGAGG	TAAAGAGTGA	AATTATGGTA	TAAGAAAGCT	6660
GCCGCAAATT	GGAATGAAGC	CTTGCCGATT	GGGAACGGTC	ATTTAGGTGG	TATGATTTAT	6720
GGTTCAGCTA	CAAAAGAATG	TATTCAACTA	AACGATGAGA	CTATTTGGTA	TAGAGGAAAG	6780
TCAGATAGAA	ATAATCCAGA	CTCACTATTG	CATCTTAAAA	AAATTCGGGA	ATATCTTTTA	6840
GATGGAGAAA	TTCAGAAAGC	CGAAGAATTG	ATAAAGTTAA	CAGTGTTTGC	TACCCCAAGA	6900
GATCAAAGCC	ACTATGAATT	ACTTGGGGAA	CTTTACATTG	AGCATATAGA	TATTCAGTCT	5960
TGTGCTCTTT	CATTGTATGA	AAGAGAGCTA	GATTTAGATA	CAGCTATTTC	TAATGTTGTG	7020
TTTGAGCCTA	ATAGTTGTAA	TTTACAAATA	AAAAGAGAAT	ATTTTACGAG	TTTTAATAAG	7080
AATATTTTAT	GTTGCCGTAT	AGTGTCATCA	GTTCAAAACA	CATTAAATTT	AAACATTAAT	7140
TTGGGTAGAA	ATAAACGGTT	TAATGACGAA	GTATCTAAAC	TGGATTCAAG	TACAATTTTA	7200
ATGTCGGCCT	CTGCTGGAGG	TAGAAAAGGT	GTTCAGTTTA	AAGTAGTATG	TCATTCTAAG	7260
GTTACGGATG	GTGAAGTAAG	TGTATTGGGA	GAGACAATAG	TTATTCGGAA	TGCTACAGAG	7320

GTATTTCTTT	ATCTCAAATC	AATGACGGAT	TATTGGGGAA	ATATAGATAT	TTCTTCTCTT	7380
CAGGGAGAAT	TTAGTAGTAT	TGATTACTTT	ACAGAAAAAG	ATGAACATGT	AAAAAATAT	7440
CAGGAGCAAT	TTAATAGAGT	TGATTTTAAA	CTAGACTATA	GTAAAGGTTG	TCTTAGCATT	7500
CCAACGAATC	TACTTCTTGA	AAACACTAAA	AAGTATAGTA	ACTACTTGAC	TAACTTGTTA	7560
TTTCATTATG	GAAGATATCT	GTTAATATCG	TCTAGTCAAC	CGAATGGTTT	ACCTGCCAAT	7620
CTTCAAGGAA	TATGGTGTGA	TGAATTAAAT	CCAATTTGGG	GTTCTAAATA	TACGATTAAT	7680
ATTAATACTC	AAATGAATTA	TTGGATGGTA	GGTCCATGTG	ATTTACCAGA	AGTAGAATAT	7740
CCATTATTTG	ATATGCTCGA	AAGAATGAGA	GAACCGGGAA	GACTAACCGC	TAAGAAAATG	7800
TATGGAGCTA	GAGGTTTTAC	AGCACATCAT	AATACGGATG	GTTTTGGCGA	TACGGCTCCC	7860
CAATCTCATG	CCATGGGGGC	TGCAATTTGG	GTATTAACTA	TTCCATGGTT	ATGTACTCAT	7920
ATTTGGGAAC	ACTATTTATA	TTTCCAAGAT	GAGCGTATTC	TTACGGAACA	TTTTGAAATG	7980
ATAAAAGAAG	CATTTCTTTT	CTTTGAAGAT	TATTTATTTG	AGGTGGATGG	CTACTTGATG	8040
ACAGGTCCAA	GTGTCTCACC	GGAAAATAAA	TATCGCTTAA	AAAATGGTAT	TGAAGGAAAT	8100
GCTTGTCTAT	CATCTACAAT	TGATAATCAA	ATTCTAAGAT	ATTTTTGTGA	TTCATGCATT	8160
GGCATTGCAA	AACAATTAGG	AGACAATTCG	GATTTTATTA	GTCGTGTGAA	GGAGTTAAAA	8220
AAGAAACTAC	СТААААСААА	AATAGGTAGT	AATGGGCAAA	TCCAAGAATG	GTTAGAAGAT	8280
TATGAAGAAG	TAGAGCCTGG	GCATAGACAC	ATTTCACCTC	TATTTGGGCT	TTATCCTTAT	8340
AATGAGATTG	ATATTCATAA	AACTCCGGAA	TTAGCAGAAG	CAGCTAAAAT	CACTATCAAT	8400
AGGAGATTAT	CAAACGCTAA	TTTTTTATCT	TCACAGGAGA	GGGAGCAAGC	GATTAATAAT	8460
TGGTTAGTAA	GTGGTTTGCA	TGCTAGTACA	CAAACAGGTT	GGAGTGCTGC	ATGGCTGATT	8520
CATTTTTTTG	CGAGACTATA	TCAAGGTGAA	CCTGCTTATA	ACCAGATTAA	TGGTTTGTTA	8580
AATAATGCGA	CTCTTGGCAA	TTTATTTCTT	GACCATCCAC	CATTTCAAAT	TGATGGTAAT	8640
TTAGGTTTGG	TGAGTGGAAT	TTGTGAATTA	TTAGTACAGA	GCCATCATAA	TTGGTTATCA	8700
CTAATTCCAG	CTTTACCTTC	TGCTTGGTCA	GAAGGAGAAG	TGAAAGGTTT	CAGAGTAAGA	8760
GGAGGATATA	AGGTATCGTT	TGCTTGGAAA	AATGGGGATA	TAACATTCCT	AAAATTGGAA	8820
GGAGGAAACA	AAGATCAAAA	AGTAAGAGTA	AGAATATATG	GCAAAAATAC	TGATGTACAA	8880
AATATTGAAT	TGGTATTTAA	TTCAGAAAAA	ATTATTGAGT	TAAATTTTTA	GGTATAAGTC	8940
ATGAATAAAG	AAAAAATAAA	AAGAAAATTA	ATCACAATAT	TGTTTGTATG	TATTGGGATG	9000
TTATGTTTTG	GATTGTTAGC	AGGAGTTAAG	GCTGATAATC	GTGTTCAAAT	GAGAACGACG	9060

648 ATTAATAATG AATCGCCATT GTTGCTTTCT CCGTTGTATG GCAATGATAA TGGTAACGGA 9120 TTATGGTGGG GGAACACATT GAAGGGAGCA TGGGAAGCTA TTCCTGAAGA TGTAAAGCCA 9180 TATGCAGCGA TTGAACTTCA TCCTGCAAAA GTCTGTAAAC CAACAAGTTG TATTCCACGA 9240 GATACGAAAG AATTGAGAGA ATGGTATGTC AAGATGTTGG AGGAAGCTCA AAGTCTAAAC 9300 ATTCCAGTTT TCTTGGTTAT TATGTCGGCT GGAGAGCGTA ATACAGTTCC TCCAGAGTGG 9360 TTAGATGAAC AATTCCAAAA GTATAGTGTG TTAAAAGGTG TTTTAAATAT TGAGAATTAT 9420 TGGATTTACA ATAACCAGTT AGCTCCGCAT AGTGCTAAAT ATTTGGAAGT TTGTGCCAAA 9480 TATGGAGCGC ATTTTATCTG GCATGATCAT GAAAAATGGT TCTGGGAAAC TATTATGAAT 9540 GATCCGACAT TCTTTGAAGC GAGTCAAAAA TATCATAAAA ATTTGGTGTT GGCAACTAAA 9600 AATACGCCAA TAAGAGATGA TGCGGGTACA GATTCTATCG TTAGTGGATT TTGGTTGAGT 9660 GGCTTATGTG ATAACTGGGG CTCATCAACA GATACATGGA AATGGTGGGA AAAACATTAT 9720 ACAAACACAT TTGAAACTGG AAGAGCTAGG GATATGAGAT CCTATGCATC GGAACCAGAA 9780 TCAATGATTG CTATGGAAAT GATGAATGTA TATACTGGGG GAGGCACAGT TTATAATTTC 9840 GAATGTGCCG CGTATACATT TATGACAAAT GATGTACCAA CTCCAGCATT TACTAAAGGT 9900 ATTATTCCTT TCTTTAGACA TGCTATACAA AATCCAGCTC CAAGTAAGGA AGAAGTTGTA 9960 AATAGAACAA AAGCTGTATT TTGGAATGGA GAAGGTAGGA TTAGTTCATT AAACGGATTT 10020 TATCAAGGAC TTTATTCGAA TGATGAAACA ATGCCTTTAT ATAATAATGG GAGATATCAT 10080 ATTCTTCCTG TAATACATGA GAAAATTGAT AAGGAAAAGA TTTCATCTAT ATTCCCTAAT 10140 GCAAAAATTT TGACTAAAAA TAGTGAGGAA TTGTCTAGTA AAGTCAACTA TTTAAACTCG 10200 CTTTATCCAA AACTTTATGA AGGAGATGGG TATGCTCAGC GTGTAGGTAA TTCCTGGTAT 10260 ATTTATAATA GTAATGCTAA TATCAATAAA AATCAGCAAG TAATGTTGCC TATGTATACT 10320 AATAATACAA AGTCGTTATC GTTAGATTTG ACGCCACATA CTTACGCTGT TGTTAAAGAA 10380 AATCCAAATA ATTTACATAT TTTATTGAAT AATTACAGGA CAGATAAGAC AGCTATGTGG 10440 GCATTATCAG GAAATTTTGA TGCATCAAAA AGTTGGAAGA AAGAAGAATT AGAGTTAGCG 10500 AACTGGATAA GCAAAAATTA TTCCATCAAT CCTGTAGATA ATGACTTTAG GACAACAACA 10560 CTTACATTAA AAGGGCATAC TGGTCATAAA CCTCAGATAA ATATAAGTGG CGATAAAAAT 10620 CATTATACTT ATACAGAAAA TTGGGATGAG AATACCCATG TTTATACCAT TACGGTTAAT 10680 CATAATGGAA TGGTAGAGAT GTCTATAAAT ACTGAGGGGA CAGGTCCAGT CTCTTTCCCA 10740 ACACCAGATA AATTTAATGA TGGTAATTTG AATATAGCAT ATGCAAAACC AACAACACAA 10800 AGTTCTGTAG ATTACAATGG AGACCCTAAT AGAGCTGTGG ATGGTAACAG AAATGGTAAT 10860

7	TTTAACTCTG	GTTCGGTAAC	ACACACTAGG	GCAGATAATC	CCTCTTGGTG	GGAAGTCGAT	10920
7	rtgaaaaaaa	TGGATAAAGT	TGGGCTTGTT	AAAATTTATA	ATCGCACAGA	TGCTGAGACT	10980
(CAACGTCTAT	CTAATTTTGA	TGTGATTCTA	TATGACAATA	ATAGAAACGA	AGTTGCTAAG	11040
2	AAACATGTTA	ATAATTTGTC	GGGTGAATCT	GTTAGTCTAG	ATTTCAAAGA	AAAAGGAGCA	11100
7	AGGTATATTA	AAGTTAAATT	ACTAACGAGT	GGAGTGCCTT	TGAGTTTAGC	AGAAGTAGAG	11160
(GTTTTTAGAG	AATCAGATGG	TAAGCAATCT	GAAGAGGATA	TAGATAAAAT	AACAGAAGAT	11220
7	AAAGTAGTCT	СТАСАААТАА	GGTAGCTACT	CAAAGTTCAA	CCAATTATGA	GGGTGTAGCT	11280
C	GCTTTAGCAG	TTGATGGTAA	TAAAGATGGA	GATTACGGAC	ATCATTCGGT	GACTCATACT	11340
I	AGGCAGATT	CTAACGCTTG	GTGGCAGGTC	GATCTGGGAG	AAGAGTTTAC	GGTTTCTAAA	11400
C	GTTGATATTT	ATAATAGAAC	AGATGCCGAA	CCTCAGCGTT	TATCTAATTT	TGATGTTATT	11460
1	TTCTATCTT	CATCAGGAGA	AGAAGTTTTT	AGAAGACATT	TTGATAAAGT	AGTTGATGGT	11520
7	TGTTATCTT	TAAAAGTACC	TTCTGTAGGG	GCTAAGCTAG	TCAAAATAGA	ATTAAAATCA	11580
C	GCAGCTATTC	CGTTAAGTTT	AGCGGAAGTT	GAAGTCTATG	GTTCAAAGAG	AACTCCGAAG	11640
Į	AACTTTCTA	ATATTGCATT	AACAAAAGAA	ACTCGACAGA	GTTCAACGGA	TTACAATGGT	11700
7	TTTCTCGTC	TAGCAGTTGA	TGGAAATAAA	AACGGAGATT	ATGGTCATCA	TTCAGTGACT	11760
C	CATACCAAAG	AAGATTCTCC	TTCATGGTGG	GAGATAGATT	TAGCACAAAC	CGAAGAATTA	11820
C	GAAAAGTTAA	TTATTTATAA	TAGAACAGAT	GCTGAAATTC	AGAGATTATC	AAATTTTGAT	11880
P	TATTATTAT	ATGATTCAAA	TGATTATGAA	GTTTTTACAC	AACATATTGA	CAGTTTAGAA	11940
P	GCAATAATC	TATCCATAGA	CTTAAAAGGA	CTGAAGGGAA	AAAAGGTTAG	AATTTCTTTG	12000
7	GAAGCGCAG	GAATTCCTTT	AAGTTTAGCA	GAGGTAGAGG	TTTATACTTA	TAAGTAATTT	12060
1	TATTAAAAA	CACCCAGGCT	ACCGTAAATA	TAATGGAGAT	GGTAGTATGA	AAGAAACAGA	12120
P	AAATAAGAG	GAAAATAGTA	TGATTCAACA	TCCACGTATT	GGGATTCGTC	CGACTATTGA	12180
T	GGTCGTCGT	CAAGGTGTAC	GCGAATCACT	TGAAGTGCAA	ACAATGAACA	TGGCTAAAAG	12240
T	GTGGCAGAT	TTGATTTCAA	GCACATTGAA	ATATCCAGAT	GGGGAACCTG	TGGAATGCGT	12300
C	SATTTCTCCA	TCTACTATTG	GCCGTGTACC	AGAGGCTGCA	GCTTCCCATG	AGTTGTTTAA	12360
A	AAATCAAAT	GTTTGCGCAA	CAATTACAGT	TACACCATGC	TGGTGTTATG	GTAGTGAAAC	12420
T	ATGGATATG	TCTCCAGATA	TTCCTCATGC	TATTTGGGGA	TTTAATGGGA	CAGAACGCCC	12480
A	GGAGCTGTC	TATCTTGCAG	CTGTACTAGC	TTCACATGCT	CAAAAAGGGA	TTCCAGCCTT	12540
Т	GGGATTTAT	GGAAGAGATG	TTCAGGAAGC	TAGTGACACA	GATATTCCAG	AAGATGTCAA	12600

			650			
AGAAAAACTT	TTACGCTATG	CGCGTGCAGC		GGCTTGATGA	GAGACACTGC	12660
TTACCTATCA	ATGGGTAGTG	TTTCGATGGG	GATTGGTGGT	TCTATTGTAA	ATCCGGATTT	12720
CTTCCAAGAA	TACTTAGGAA	TGCGAAATGA	ATCGGTAGAT	ATGACGGAGT	TCACGCGCCG	12780
TATGGACCGT	GGTATTTACG	ACCCTGAAGA	GTTCGAACGT	GCGCTCAAAT	GGGTGAAAGA	12840
AAACGTAAAA	GAAGGATTCG	ACCATAACCG	TGAAGACCTT	GTTTTAAGCC	GTGAAGAAA	12900
AGATAGACAA	TGGGAATTTG	TTATTAAGAT	GTTCATGATT	GGACGTGACT	TAATGGTTGG	12960
TAACCCAAGA	CTTGCTGAAC	TTGGTTTTGA	GGAAGAAGCG	GTTGGTCACC	ATGCTTTAGT	13020
AGCTGGTTTC	CAAGGTCAAC	GTCAGTGGAC	AGACCATTTT	CCAAATGGGG	ACTTTATGGA	13080
AACTTTCCTC	AATACTCAGT	TTGACTGGAA	TGGTATTCGA	AAACCATTTG	TATTTGCGAC	13140
AGAGAATGAT	TCACTAAATG	GTGTGTCTAT	GCTCTTTAAT	TATCTATTAA	CAAATACTCC	13200
ACAAATCTTT	GCTGATGTGC	GTACTTATTG	GAGCCCAGAG	GCTGTTAAAC	GTGTAACGGG	13260
ACATACTTTA	GAGGGTCGTG	CTGCAGCTGG	CTTCTTACAT	CTAATCAACT	CTGGTTCTTG	13320
TACATTGGAT	GGTACAGGTC	AAGCTACTCG	AGATGGCAAA	CCTATTATGA	AACCATTCTG	13380
GGAGTTGGAA	GAAAGTGAAG	TGCAGGCTAT	GCTTGAAAAT	ACAGACTTCC	CACCAGCAAA	13440
CCGCGAATAC	TTCCGTGGAG	GAGGATTCTC	AACTCGTTTC	TTGACGAAGG	GGGATATGCC	13500
AGTAACAATG	GTACGTCTCA	ATCTTCTAAA	AGGGGTTGGT	CCAGTGCTAC	AAATTGCAGA	13560
AGGTTACACA	CTTGAACTTC	CTGAAGATGT	TCACCATACT	TTAGATAATC	GTACAGATCC	13620
AGGATGGCCA	ACTACTTGGT	TTGCTCCACG	TTTGACAGGA	AAAGGTGCTT	TCAAGTCTGT	13680
CTATGACGTC	ATGAATAATT	GGGGAGCTAA	TCACGGAGCC	ATAACATATG	GACACATTGG	13740
AGCAGACTTG	ATTACCTTGG	CTTCTATGTT	GAGAATTCCT	GTCAATATGC	ATAATGTACC	13800
TGAGGAAGAT	ATCTTTAGAC	CTAAAAATTG	GTCCTTATTT	GGAACAGAAG	ATCTAGAATC	13860
AGCAGACTAT	CGTGCATGTC	AGTTGTTGGG	GCCACTACAT	АААТААААСТ	TGTTTATATA	13920
GGAGGTGAAC	TTACGTCCCT	CCTATCCTTT	TAAAAAGATT	TGTTAAACAA	TTCACAAATA	13980
ATTGAAAACG	AATACAAAAA	GTAATATAAT	GATGTTAAAT	AGATAGCGCG	GAGGCGCAGG	24040
AGGAAAATTA	TATGGCTATA	TTTTATGTTC	CGGCAGTCAA	CCTTATTGGA	AAAGGTGTTG	14100
TAAATGAAGT	GGGTCCTTAT	ATCAAGGAAC	TTGGCTATAA	AAAGGCACTT	TTGGTGACAG	14160
ATAAGTACAT	CGAAGGCAGT	GATATTTTAC	CTAAGACTTT	AAAACCACTG	GATACAGAAG	14220
GAATCGAATA	т					14231

(2) INFORMATION FOR SEQ ID NO: 82:

(i) SEQUENCE CHARACTERISTICS:

651

(A) LENGTH: 16995 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:

60	TTCTGCTgAA	GGTACTCATT	TCCGCTCTCA	GATGGCATTC	ACTTTTTAG	AGTTCTCTTA
120	ATTTTAGGTA	CTTACGTCCC	TCGTTTTTGG	TCTTCAGGTC	TTCTGTCCTC	GACGTTCTAA
180	GCTAGCCAGT	CCTGTATTGT	ACCCGTTTTT	ACAATAGTAT	TGTTTTCTCA	CTCTCCCTCT
240	TTAGTCCAGC	AACTCTATCT	ATTCAAGAGA	GGGAGACCGT	CGTACGACTT	TAAGAAGTAT
300	TAACGATTTT	AGGAGAATAG	GTTTTAAATC	CTCATTTCTT	GACTTTATTA	CTTCATGTCA
360	TACCTAATAT	TTTAATCATG	GATCAATCAA	ATTCCGTAAC	GACGAACTCT	TTCCTTTTTT
420	TGTTTTCTAA	GCTATATCCT	GCTTCTCTAA	TTATTTGAAA	TATCCCAAAT	TAGAATTGCT
480	CCCCAAAAGT	AATAAAAACA	TTAGTTTCAT	TCATCATAAG	CTGAACTTTA	GTTCATAGAT
540	GATGCGTTTT	CACCTGATAT	AGTTCATGTA	TTTGGGGTGT	CTGTCTAACT	TAGATTTTTT
600	CAAAATCTGT	TGTTTTGACA	TCAAAAGTAA	CCCAGCCTCG	AGCCTTTTTG	ATAATTTTTA
660	GAAAAGGAGG	CTAGTTTTAA	TTTGTATATA	GGTTTTTAAC	TAGTTTTAAA	GACAAAACTT
720	GGGACATCGC	TCAAAAACTA	AAGTCAGGGT	GTATCATTGA	GGAAGAAAA	ATGATCTAAT
780	TTGACTGCCC	TTGGGGAGTA	CATTTATTGC	AATATTGGAG	GGTTATGCCC	TTTCAAATAT
840	GGTCCTATGT	TACTGTTGTT	AACAGTTAGC	CTGCCAAATG	TGATGGCTAT	TCTTTATCGC
900	CATGGCCAAC	ATATATGATC	ACACAGGTGG	CTGATTGGTT	ATTGCCAATC	TAACGTATTT
960	AGTGTTCCTA	CACAGGTTCT	TTGGTGCAAT	ATTGCTACTG	TGTAGGAGCT	GTGGTGCCGT
1020	AAATTTGATG	GACTATCAAG	TGGGAGGATG	ATGGGCCCAC	AGCTATGGTA	TGTTTATCGG
1080	TTCTCAGCTG	AGTTAATAAC	TTGAAATGTT	CGTCCCGGAT	GGAAAAAATT	AGAAGTTCCA
1140	GTCGTATCGA	AATCGGTCCA	CTTTCTACGC	TTGCTTTTGG	TTTTGCATTA	GTCTCGTTGG
1200	CTCCTTCCTA	CAATGCTCGC	AGGCTATTGT	AATGGTGTTG	AGCTGTTGGG	CTCTTACTGG
1260	CTCAATCATG	CAATAATGCC	TCCTTTTCCT	CCGGCTAAAG	TATCATCGAA	TGGCTAATAT
1320	ATTCTCTTCC	TGGTAAGTCA	TAGCTCAAGC	GTAGAACAGG	TCCTCTGGGA	GCATTTTTAC
1380	GTATTCGGTA	AGCTTATGCT	GAATTCTATT	CCAGGTCTGG	TAATCCTGGA	TATTGGAAGC
1440	GGAGGGATTC	TCATTTCTTC	CAATGGTTAT	TCTTGGGGGG	TAAATCTTCT	AAGGTTCTGC
1500	GCTATGGCAG	ATTTTTAGCT	AGCCTACTCT	GTTATGATGA	CTTTCCTTAT	ATGAAATTTA

GAGGTATCTC	TGGAACTTTT	ACTTTTCAAC	652 TCTTAGACGC	TGGTCTTAAA	TCTCCAGCTT	1560
CACCAGGTTC	TATTATTGCG	ATTATAGCTA	CGGCGCCAAA	AGGTGTTTGG	CCCCATCTAA	1620
ATGTTCTTTT	AGGTGTTTTA	GTGGCAGCAG	TTGTTTCTTT	CCTTGTAGCA	GCCCTTATTC	1680
TTCATGCAGA	CAAGTCAACT	GAGGATTCGC	TCGAAGCTGC	TCAGGCGGCT	ACCCAAGCAG	1740
CTAAGGCTCA	GTCTAAAGGT	CAGTTAGTAT	CAACTTCTGT	TGATGCAGTT	GTTTCGACAG	1800
ACTCAGTGGA	AAAAATCATT	TTCGCCTGCG	ATGCTGGTAT	GGGAAGCTCT	GCTATGGGAG	1860
CTAGTATTCT	TCGAGATAAG	GTTAAAAAAG	CAGGTCTAGA	GATTCCAGTA	TCTAATCAGG	1920
CAATCTCAAA	TTTGCTTGAT	ACACCAAAAA	CATTAATTGT	TACTCAGGAA	GAACTGACAC	1980
CAAGAGCTAA	AGACAAGAGT	CCAAGTGCTA	TTCATGTTTC	TGTTGATAAT	TTCTTAGCGT	2040
CCTCTCGTTA	TGATGAAATT	GTAGCTTCAT	TAACAGGAGC	ТТСТССААТА	GCAGAAATTG	2100
AAGGAGATAT	ACCAACTTCA	GCACCAGTAG	ATAGTCAGGA	AAGTGACCTT	AACCATATTG	2160
ATGCTGTAGT	AGTTGCTTAT	GGTAAAGCAC	AGGGAACTGC	AACTATGGGC	TGTGAAACGA	2220
TTCGGGCTAT	TTTTAGAAAC	AAGAATATTC	GTATTCCAGT	TTCTACTGCC	AAAATTTCAG	2280
AATTAGGTGA	ATTTAATTCT	AAAAACATAA	TGATTGTAAC	AACTATTTCT	TTACAGGCAG	2340
AAGTGCAGCA	AGCAGCACCG	AATTCTCAAT	TTCTTATTGT	GGATAGTTTA	GTAACAACAC	2400
CAGAATATGA	CAAAATGGCT	GCTAGAATGT	ACAAATAGAA	CTAGAGGTTT	CTAAATTACG	2460
AATGCTATTA	ACCAAACGAG	AAGAACAATT	ATTGAAGGCT	TTCCTACATG	TAGGGAAGCT	2520
TTCAATGCAA	GATATGACTG	AAATCTTACA	GGTTTCATCT	AGAACAATTT	ATCGAACTTT	2580
ATCAGATTTG	ACAGATAGCA	TGGAGCAATA	TGGAATCGAA	ATAACGAAGC	ATGGGAAATA	2640
CTATATTTTG	ACTGGAGAGT	TGGATGATTT	GCCGACAGAA	CTTGAAGTGT	TAGTTGAGTA	2700
TAGTCCCCAA	GAAAGACAAG	AGTTGATTAC	CTATCGCCTT	CTGACTGAGA	GTGGTTTTGT	2760
CACCAATGAA	GCATTGCAAG	AGTGCACGAA	AGTCAGTAAT	GTAACTATTA	TTCAGGATAT	2820
TTCAGATATT	GATAAGCGTC	TTTTAGACTT	TGATCTGAAA	ATTGAACGAC	AAAAAGGTTA	2880
TCGGATTTCT	GGTGATTCAG	TTGGTAAGAG	AAGATTTTTG	GCTATTTTAC	TGACAAACTG	2940
TATCTCAGTA	GCAGATTTTT	CAACCGGTAA	TTTTGGGAGC	TTTGATATTT	TAGAAGCAGA	3000
TAGAACTGGG	CTGGCCAGTC	AGATTGTTAA	TAAGCAACTG	TCAGGTTTTC	CAGATATGGA	3060
TGCTAGGATG	AAGATGTTTT	TTGCGATCTT	GTTATCTCTT	ATAGGTCAGG	AGCAAAACAT	3120
TGAAAATTCA	CCTAATACTA	GTAAGCAGGC	TTTGGAAATT	TCTCAAAAAA	TTTTTCAAGC	3180
TTACTCTAAG	CAGACTGCAC	AATTTTATAG	TATTCAGGAA	ATTATCTATT	TTGCGAGCAT	3240
CTTGGATGAA	TTAATCATTA	AACGTCAGGA	CAATCCGCTC	TTTACGGAGA	AATTTGATGG	3300

TGAATTTTTC	TACAATATTT	CAAATCTGAT	TGATACGGTT	TCCATGTATA	CCAAGATTGA	3360
CTTTTTTAAG	GACAAGGTTT	TATTCAATTT	TCTTTTCCAT	CATATTCGGC	TCAGTTTAGG	3420
CGTCCCTATC	CTTTTTCAGG	GTGAAAATTT	GCCAGAATCT	ATCCAGATTT	TAGTTGAAAG	3480
GAATAAATTT	CTTTATACAG	TCATCAGTCT	TTTAGTGAAT	GATATTTTTC	CGAAATATCT	3540
TCATACAGAG	TATGAGTATG	GCATGATTGC	CCTACATTTT	ATCTCTAGCT	TAGGCCGTAG	3600
TCCAGAGATT	TATCCAGTCC	GTGTTTTGCT	TTTAACGGAT	GAACGTCGGG	TCACTAGAGA	3660
TTTATTAGTC	AGTAAAATTA	AGAGTGTTGC	TCCTTTTGTA	GAGTTGATAG	ATATTCAATC	3720
TCTAGTAGAT	TACCACAGTA	TTGATCTCAG	TCAGTATGAT	TATATTTTAT	CTACCAAGCC	3780
GCTGACTAAT	CAGGAAATCG	ATGTAATTTC	TAGTTTTCCA	ACCGTCAAAG	AATTGCTTGA	3840
ATTACAGGAA	CGACTTCAGT	ATGTACAGGC	ACATCGTACA	ATTGTCGCGC	GTGATGCTAT	3900
CGCTCCAGAG	AAAAGTTATG	ACTTGCAAGA	ТТАТТТААТА	TCTAGTAGTC	AGCTTTTGAG	3960
TCAATTCGAG	TTGGTTCAAT	TGGAGAATAA	TCAATCATTT	GAGCACACGG	TAGAACAAAT	4020
CATCCAATAT	CAGAAGAATG	TGAGTGACAG	AGCTTACCTA	ACAAGAAAAT	TGTTATCTCA	4080
CTTCCAGAAT	AGTCCTATGG	CTATTCCTAA	TACTGGTCTG	GTGCTTTTAC	ATAGTCAGTC	4140
TAGCAAAGTA	ACAACAAATA	GTTTTACTAT	GTTTGAACTC	AAACTACCTA	TCTCCGCATT	4200
GTCAATGAAA	CGAGAGGAAG	AAGAGGTCAA	AAGGTGTCTG	CTAATGCTAA	TGTCTAAAGA	4260
AGCTAGCGAG	GAAGCTAGAG	ATTTAATGAC	AGCTATTAGT	CAGTCGATTA	TTGAAAATCA	4320
TCTTTATACA	GAGATTTACA	AGACGGGAAA	TCAATCCATT	ATTTATCAGA	TGCTAAATAC	4380
TATTTTTAAC	GAAAAAATTA	AGAAATTGGA	GAACTAATAT	GAAACTTGAA	AAACATTTGA	4440
TTAAGCTTAA	TAAACAATTT	TCTAACAAGG	AGGAAGCTAT	TTGTTATTGT	GGGCAAGTTC	4500
TTTATGAGGG	TGGATATGTT	AATGAAGACT	ATATTGAAGC	CATGATTGAG	CGAGATAAAG	4560
AGCTATCTGT	TTACATGGGT	AACTTTATCG	CCATACCGCA	TGGAACAGAT	GCAGCAAAAA	4620
ATGATGTCCT	CAAGTCTGGT	ATTACAGTCG	TTCAAGTCCC	TAGAGGGGTT	GATTTTGGGA	4680
ATGTATCTAA	CCCTCAAGTG	GCAACGGTTC	TTTTTGGTAT	TGCTGGTATT	GGTAATGAAC	4740
ACTTAGAAAT	TATTCAGAAA	ATTTCTATCT	TCTGTGCAGA	TGTAGATAAT	GTTCTTAAAC	4800
TAGCAGATGC	TCAGTCAAAA	GAGGAAGTAT	TGCGCTTATT	TGATGCTGTT	GAATAATTGA	4860
ATTTAGTCAT	TTGTCATCTA	GTATATATGT	СССТСАААТА	GGAAAAGGAG	AAATTGAATG	4920
AAACATTCTG	TTCATTTTGG	TGCCGGTAAT	ATCGGTCGTG	GTTTTATAGG	TGAAATTCTA	4980
TTTAAAAATG	GTTTCCATAT	TGATTTTGTG	GATGTCAATA	ATCAGATAAT	TCATGCTCTG	5040

654 AATGAAAAGG GCAAGTATGA AATTGAAATT GCACAGAAAG GACAGTCTCG TATAGAAGTA 5100 ACTAATGTGG CTGGCATTAA TAGCAAAGAA CATCCTGAGC AAGTCATTGA AGCGATTCAA 5160 AAGACGGATA TTATTACTAC TGCAATCGGA CCTAATATAC TCCCTTTTAT CGCCGAACTT 5220 CTAGCCAAAG GAATCGAAGC TCGCCGAGTT GCAGGAAATA CACAGGCATT GGATGTTATG 5280 GCCTGTGAAA ATATGATTGG CGGGTCTCAA TTTCTTTATC AAGAAGTCAA GAAATATTTA 5340 AGTCCGGAAG GTTTGACATT TGCTGATAAC TACATAGGTT TTCCAAATGC TGCAGTAGAC 5400 AGGATTGTTC CAGCACAAG TCACGAAGAT TCCCTTTTTG TTGTGGTCGA GCCCTTTAAT 5460 GAATGGGTCG TGGAAACCAA GCGTCTTAAA AATCCAGATT TACGTCTAAA AGATGTGCAT 5520 TATGAAGAAG ATTTAGAACC CTTTATTGAG CGAAAACTTT TTTCAGTCAA TTCTGGACAT 5580 GCAACTTCAG CTTACATTGG TGCGCATTAT GGTGCCAAGA CAATTTTGGA AGCTCTTCAA 5640 AATCCTAATA TTAAATCTCG GATTGAATCT GTATTAGCTG AAATTCGGAG TCTCTTGATT 5700 GCCAAATGGA ACTTTGATAA AAAAGAATTG GAGAATTATC ACAAAGTCAT TATAGAACGA 5760 CTTGAAAACC CTTTCATAGT GGACGAGGTT AGTCGCGTAG CTCGTACTCC AATCCGAAAA 5820 TTAGGCTATA ATGAACGATT CATCCGGCCG ATACGTGAAT TGAAAGAACT CAGTTTGTCA 5880 TATAAAAACC TACTTAAAAC AGTTGGCTAT GTCTTTGACT ATCGCGATGT AAATGATGAA 5940 GAAAGTATTC GATTAGGTGA ATTGTTGGCT AAACAATCAG TCAAAGATGT TGTTATACAA 6000 GTTACAGGTT TAGACGACCA AGAATTGATT GAGCAAATTG TAGAGTATAT TTAATCTTTT 6060 TCGAAAATCT CTTCAAATCA GGTTAGCATC GCTTTGTCTT AGGCATATGT TGTTCTATCT 6120 ACAACCTCAA AGCAGTGCTT TGAGCTGACT CCGTCAGTCT TATCTGCAAT CTCAAAACAC 6180 TGTTTGAGTT ATCTGCGGTA ATCTTTCTAG CTTGTCTTTG ATTTTTGTTG TTATTATAA 6240 GGTAAAAGAA GCTGGACAAA AAGTCTTCAA AATCGGGAAA AGGCAGCCTA TCGGGTGTTC 6300 AAAAATCTTG ATAGGATGTC CTTTATTATG GAAAGCCTTA TTGGATTTTC TCCTCAGATT 6360 GAGTTTTTGA TCAGCTTTAT GAGATAGGTC TTGCTAGAGA TGTAGCCCAT CATGTTATTT 6420 TTATGGACAG TGGGAAAATT GTTGAAAAAA ATAATGCCCA TCAATTCTTT AGTCGTCCAA 6480 GAGAAGAACG AACCAAGCAA TTTTGGAACG AATTCTTTCG AATGCGATCT ATATAGTAAA 6540 ATGAAACAAG AACAGGACAA ATCGATCAGG ACAGTCAAAT CGATTTCTAA AAATGTTTTTA 6600 GAAGTAGAGG TGTACTATTC TAGTTTCAAT CTACTATATA ACTGAAAAAT TAGATAAATT 6660 AGTTTTGGAA AATGACTAAC CAAAAGATAT CCAAAGTAGT CTAAAATTGT CTATACTTTA 6720 TGAGTGTTTT AGTTAGGAAA AAGGCTTGTT GTCTATAATT GTCTGCATTA GTCTAGATTT 6780 TATTTATAGA AAATGTTATA ATAGACTGTA TTTAAAAAAT TTTAAGGAGA AATGACAGAA 6840

TGTCTGTATC	ATTTGAAAAC	AAAGAAACAA	ACCGTGGTGT	CTTGACTTTC	ACTATCTCTC	6900
AAGACCAAAT	CAAACCAGAA	TTGGACCGTG	TCTTCAAGTC	AGTGAAGAAA	TCTCTTAATG	6960
TTCCAGGTTT	CCGTAAAGGT	CACCTTCCAC	GCCCTATCTT	CGACCAAAAA	TTTGGTGAAG	7020
AAGCTCTTTA	TCAAGATGCA	ATGAACGCAC	TTTTGCCAAA	CGCTTATGAA	GCAGCTGTAA	7080
AAGAAGCTGG	TCTTGAAGTG	GTTGCCCAAC	CAAAAATTGA	CGTAACTTCA	ATGGAAAAAG	7140
GTCAAGACTG	GGTTATCACT	GCTGAAGTCG	TTACAAAACC	TGAAGTAAAA	TTGGGTGACT	7200
ACAAAAACCT	TGAAGTATCA	GTTGATGTAG	AAAAAGAAGT	AACTGACGCT	GATGTCGAAG	7260
AGCGTATCGA	ACGCGAACGC	AACAACCTGG	CTGAATTGGT	TATCAAGGAA	GCTGCTGCTG	7320
AAAACGGCGA	CACTGTTGTG	ATCGACTTCG	TTGGTTCTAT	CGACGGTGTT	GAATTTGACG	7380
GTGGAAAAGG	TGAAAACTTC	TCACTTGGAC	TTGGTTCAGG	TCAATTCATC	CCTGGTTTCG	7440
AAGACCAATT	GGTAGGTCAC	TCAGCTGGCG	AAACCGTTGA	TGTTATCGTA	ACATTCCCAG	7500
AAGACTACCA	AGCAGAAGAC	CTTGCAGGTA	AAGAAGCTAA	ATTCGTGACA	ACTATCCACG	7560
AAGTAAAAGC	TAAAGAAGTT	CCGGCTCTTG	ACGATGAACT	TGCAAAAGAC	ATTGATGAAG	7620
AAGTTGAAAC	ACTTGCTGAC	TTGAAAGAAA	AATACAGCAA	AGAATTGGCT	GCTGCTAAAG	7680
AAGAAGCTTA	CAAAGATGCA	GTTGAAGGTG	CAGCAATTGA	TACAGCTGTA	GAAAATGCTG	7740
AAATCGTAGA	ACTTCCAGAA	GAAATGATCC	ATGAAGAAGT	TCACCGTTCA	GTAAATGAAT	7800
TCCTTGGGAA	TTTGCAACGT	CAAGGGATCA	ACCCTGACAT	GTACTTCCAA	ATCACTGGAA	7860
CTACTCAAGA	AGACCTTCAC	AACCAATACC	AAGCAGAAGC	TGAGTCACGT	ACTAAGACTA	7920
ACCTTGTTAT	CGAAGCAGTT	GCCAAAGCTG	AAGGATTTGA	TGCTTCAGAA	GAAGAAATCC	7980
AAAAAGAAGT	TGAGCAATTG	GCAGCAGACT	ACAACATGGA	AGTTGCACAA	GTTCAAAACT	8040
TGCTTTCAGC	TGACATGTTG	AAACATGATA	TCACTATCAA	AAAAGCTGTT	GAATTGATCA	8100
CAAGCACAGC	AACAGTAAAA	TAATCTTAAT	AAACAGAAAA	CCCACCTGAA	TTGGTGGGTT	8160
TTCTGATGCA	CTATTTTCCA	AAAATCTCTT	TGAGGTCTGT	GTCTGTAATC	CCAATCATGG	8220
CTGGGATGCG	GTCCCAGTTT	TCTTCGGTTA	GGATGTAGGA	TTGTTCAGAG	GCACTTGATG	8280
TGACTGTTTC	AGAGACAGCT	TGTTGCTTTT	CTTCAACATT	CTCCAGTAGA	TCACTGAAGC	8340
GTTCAATCAG	ATAGGTTTTT	CGGGCAGTTC	CGATGTGTTG	GGTAGCATAG	TCGAAGGCTT	8400
GTAATTCGCC	TAGTAAGATG	AGTTTGCTTT	TGGCACGTGT	AATGGCTGTG	TAGATGAGAT	8460
TTCGCTCCAG	CATACGTCGG	CTAGCACTAG	TAATCGGTAG	GATGACAACT	GGGAACTCAC	8520
TTCCCTGAGA	CTTATGAATA	CTCATGGCAT	AGGCCAAGCG	AATCTTGTAC	CATTCGTTAC	8580

GGGGGTAAGA GACTTCATTA CCATCAAAAT CAATGACAAT CTCGTCTTGT TTCGATTCGG
TGTATTTACC AGGAATCAGG TCTGTGATAG CTCCTAAAATC CCCATTAAAG ACATTGATTT
CAGCATCGTT AACCAAATGA ATGACCCTGT CTCTCTTACG ATAGTGACAC TGAGGAGCTT

CAAAACTGAG TTGATCTTTT TGTGGGGGAT TGAGCAGGTC TTGCATGAGC TGATTGATAG 8820
CATCAATCCC TGCCGTCCCT CGGTACATAG GAGCCAGAAC TTGGATATCA CGGGCGGGAA 8880

656

8640

8700

8760

10380

CATCAATCCC TGCCGTCCCT CGGTACATAG GAGCCAGAAC TTGGATATCA CGGGCGGGAA

TACCATTTCT GAGGGCGGCA CCTAAGATTT TTTCAATGGT GGCAGGAATA TGGCCACTAG

8940

CAATTTCAAA GTAGGAACGG TCAGCTTTTT TTTGGGTGAA ATCAGCTGGC AAGATGCCCT 9000

GTCGAATCTG ACTAGCTAGG GTGACGATGG TTGATTCTTT GCTTTGTCGA TAAATTTTTT 9060

CCAAGCGAGT CTGAGGAATC AAAGGAATAT GAAGTAGATC CGCTAGAACC TGTCCAGGAC 9120

TGACAGAAGG TAGCTGATCA CTGTCACCTA CGATGAGGAT CTTACTGTTA GAAGAGATAT 9180
TGGAGAAGAG TTGATTGGCC AGCCAAGTAT CTACCATAGA GAATTCATCC ACGATGATAA 9240

TGGAGAAGAG TTGATTGGCC AGCCAAGTAT CTACCATAGA GAATTCATCC ACGATGATAA 9240
AGTCAGCATC TAGGTAATCT TCCAGATGAC TGGTATCATC GTCACCTGTC ATTCCCAAGT 9300

GGCGATGTAT GGTCGCGCTA GGCAAACCTG TCAATTCATT CATGCGACGA GCAGCTCGAC 9360

CAGTTGGAGC AGCAAGAAGA ATGGGCAGAT TGCTTTTCTT CCTGAAGTCA AGTCCTTCTA 9420

AAAGGGCATA AACAGCAATG ATTCCATTGA TAACAGTTGT CTTACCAGTA CCAGGCCCAC 9480

CTGTCAGGAT AAAGACCTTA TTCTGGATAG CATCACAGAT AGCCTGTTTT TGAATGTTAT 9540
CATACTCAAT TCCCAGTTCT TGCTCGACAG TAGTGATATG TTTTTGAATG GTTTCTAAAT 9600

CATGACTCTT CTGTTTTCCT TTTTCAAGGA TACGAACCAA GTGACTGCGG ATGCCTTCCT 9660

CAGCGAAAAA GAGGCTGTTG TCAAAGATCT TGGTATCAAT CTGCTGAACC TTGTCTTCTT 9720

CGATCAGGTA GGAGAGCTCT TGGGCAACTT GGCTGGGGTC TAGTTCCACG GGACGGGAAG 9780

ACTCAAGGAG AGTAAGGGTT TGTTCCAGCA AATCCCGTGC TTCAACATAG GTGTCCCCTG 9840

TTTCCATACA GGCCTGAAAA AGACTGTGAA CTAGACCGGC GCGGAAGCGT TCAGGAGCCT 9900

TTTCCATACA GGCCTGAAAA AGACTGTGAA CTAGACCGGC GCGGAAGCGT TCAGGAGCCT 9900
GACTTTCGAT GCCTAGTTCC TCAGCTAGTT GGTCAGCAAT GGTAAAGCCC AAACCCTTGA 9960

TATCCTCAAC CAGCTGGTAG GGATAATTTT CAACCACATC AAGGGTTTCT TCCTTGTAAA 10020

AGTCTTGAAT CTGAAAGGCT AGTTTGTTGG GAATGCCGTA GTTGGCTAGT TTGGCCAAAA 10080
TCATCTCCGT TCCGTAGTTG AGACGGAGAG TGGAGACGAA AGCCTCGCGA TTTTTGGCAG 10140

TCATCTCCGT TCCGTAGTTG AGACGGAGAG TGGAGACGAA AGCCTCGCGA TTTTTGGCAG 10140

AGAGTCCTGC GATGCCTTCT AACTTTTCTG GGTGTTGCAA AATTTCGTCA ATGGTATTTT 10200

CGCCATAGGT ATCCACGATT TTCTGAGCTG TCTTGAGACC AATCCCCTTG AAATGGCTAC 10260

TTGAAAAGTA CTTGACCAAG CCCTTACTAG TTGGTTTTGC GCGATCATAA CGACTGATTT 10320

GCAGTTGTTC TCCATACTTG GAGTGCTGGA CAATTTGCCC CCAAAAAGTA TAGTCTTCGC

CCTCAATTAC	ATCAGCCATG	GTTCCTGTGA	CAATGATTTC	AAAATCATCA	AAATCCTCTG	10440
CGTCCGTATC	GTCGATTTCT	AGGAGGAGGA	TGCGATAAAA	ATTGCTGGGA	TTTTCAAAAA	10500
TAATCCGTTC	C AATAGTTCCT	GAAAAATAAA	CTTCCATAAA	ATTCCTTTGC	ATGAATAGGT	10560
GAGAGTTGGG	ATTGTTTTA	TTTTATACTC	TTCGAAAATA	TCTTCAAACC	ACGTCAGCTT	10620
CCATCTGCAA	CCTCAAAACA	GTATTTTGAG	CTGACTTCGT	CAGTTCTATC	CACAACCTCA	10680
AAACACTGTT	TTAAGCAGCC	TACGGCTAGC	TTCCTAGTTT	GTTCTTTGAT	TTTCATTGAG	10740
TATTTGTAA	TAAACAATCA	CTTCTCACGA	TAGAAGAAGA	GGCTGAGATT	GGTGATTCTC	10800
TGCCTCTTAG	GTTTCTTAAA	ATGTTCCGAT	ACGGGTGATT	GGCCATAAGC	GGAATTTAGC	10860
TTCCCCTGTG	ATATCTTTG	CTTTGAAGGT	ACCTACGTGG	CGGCTGTCGC	TCGAAACCAA	10920
GCGGTCATCT	CCGAGGAGAA	GGTATTCTCC	TTCTGGAACA	GTAAAGCTAA	AGTTGGTGTT	10980
GTAGTTGACA	TCAACTGTGA	AGGCTTGAGC	TTTTTGAGCG	ATACTTCTAA	AGAAAGTTCC	11040
TTTATTTCCT	TCAAAGCCCT	TGCCTGAGTA	AGTGCTTTGG	AGTTTGTCAT	CCTTGAAGCG	11100
TTTGATATAG	TCTGCTAGAT	AAGGCTCGTC	CGTTTCTTTG	TCATTGATGT	AGAGTTTATC	11160
ATTTTCGTAA	CGAATGGTGT	CGCCAGGCAT	TCCAATCACG	CGCTTGACGA	TGTCCTTATT	11220
GCCATCTTCC	TCATGGGCCA	CCACGATATC	AAAACGGTCA	ATAGGAAGGT	GTTTTACAAC	11280
GAAGAGAATT	TCGCCATCCG	CTAGGGTCGG	ATCCATGGAA	TGTCCTTCTA	CGCGAACATT	11340
GCTCCAAAAA	AAGATACGAC	TTAAAGCTAG	TAATGACAGA	ATTAGGAGGA	ACAATCCCCA	11400
CTCTTTTAAG	AAATTTTTAA	ATGAATTCAT	AACTTACCTT	TCTAAGCGTT	TTTTCGCTTT	11460
TTCAGTGTTT	TTAAAGTGCA	ATTTGGCGCA	GAAGCTGAGT	CCCTGCATAC	CATAGGCTTG	11520
CAAAATCTGG	CTAGCCACCT	TGTCAGAAGC	CGTTCCAGCT	CCACTTGGGA	GCTGATAACC	11580
CAGTTCTCGT	CCCAAATTTT	CAAGATTTTC	CAGAAAGAGA	TCACGCGCAA	TGACAGAAGA	11640
AACTGCGACA	GACAAGTATT	TGCCCTCAGC	CTTTTCTTCT	AAGCTGATAG	GATTGCTGAA	11700
ACGATTGGCC	TCTTGTGCCA	AGTACTTGTC	ATAATTTTTA	GCACTGGTAA	AGGCATCAAT	11760
CACAATTTTC	TCAGGCTGAA	CACCTTTTTG	AAGGAGGAGA	TAGATAGCCT	GATTATGGAG	11820
GGCAACCTTA	ACCGAAACAG	CGTTGTAGCG	GTCTCCGATG	ACCTCGTTGT	ACTTGCTGGG	11880
TGAGAGAAGG	AGTGCCTGGT	GCTGAATTTT	TTCCTTGAGA	ATAGGAGTAA	TCTGACGGAT	11940
CTTTTGGTCG	GTCAGAGTCT	TAGAATCCCC	CACACCGAGT	TTTCGTAAAA	AGTCGTGCTG	12000
GTCAGGTGTG	ACAAAGGCAG	CCACAACTGC	AAGCCCACCA	AAGTAGGAAC	CATTTCCCAC	12060
CTCATCTGTC	CCAATTAAAG	GAAGATTTTG	TCCGCTGGTT	TGCTCTACAG	CTTGATAGCC	12120

658 AAAGAAACTG GCGTATTTTT CAGCCCCTTC ACCCTGAAGC AAGATTTTTC CAGAAGTATA 12180 GATAGAAACC GTTGCTTGAG GTAGTTTCAA AAAGTAGCGG ATATAGGGAT TCTTGCTAGG 12240 AGCCAGACTG GTTTGATAGT GTTCAAGAAA AGCCTGAATA TCCTTTTCGC TTGGTGTGAG 12300 TGTGATACTT GCCATAGTTT CTATTGTACC ACAAAAGCAG TAAAATTTGT AAAAACTGAC 12360 AAAATTAGCG AATTTTGGTA TAATATCGTG AGGTGAATTT TATGGCAAAT CTAAATCGAT 12420 TCAAATTTAC ATTCGGGAAA AAATCGTTAA CCTTGACAAG CGAACATGAC AACCTTTTTA 12480 TGGAGGAAAT CGCTAAGGTT GCGACAGAAA AATACCAAGC AATTAAAGAA CAAATGCCTA 12540 GCGCAGATGA TGAAACAATC GCTCTTTTGT TGGCAGTCAA CTGTTTATCA ACTCAGCTCA 12600 GCCGTGAGAT TGAATTTGAC GATAAGGAGC AAGAGCTAGA AGAACTCCGT CACAAGCTTG 12660 TGACTTGTAA GCAAGAACAG AGCAAGATTG AGGATTCCTT ATGATTTCAT TCCTTCTTCT 12720 ATTGGTCTTG GTTTGGGGAT TTTATATCGG CTATCGGAGA GGCCTGCTCT TACAGGTTTA 12780 TTACCTGATT TCAGCCATGG CATCGGCTTT TATGGCTGGC CAGTTTTATA AGGGGCTTGG 12840 AGAGCAATTC CATTTATTGC TCCCTTATGC AAATTCGCAG GAAGGTCAGG GGACTTTCTT 12900 TTTCCCATCG GATCAACTCT TTCAGCTGGA TAAGGTCTTT TATGCAGGTA TCGGCTACTT 12960 GCTTGTATTT GGGATTGTCT ATAGCATTGG TCGTTTACTT GGTCTTCTCT TACACTTGAT 13020 TCCTAGCAAA AAACTGGGTG GTAAGTTGTT CCAAGTTTCA GCAGGTATCT TGTCCATGTT 13080 GGTGACCTTA TTTGTCTTGC AAATGGCCTT GACAATCTTG GCGACCATCC CCATGGCAGT 13140 TATACAAAAT CCTCTTGAAA AGAGTATCGT CGCAAAACAC ATCATCCAGA GCATACCGGT 13200 AACAACCAGT TGGCTCAAAC AAATCTGGGT GACAAATTTA ATCGGATAAA AAGGGCAGGA 13260 GTTTTCCTAG CCCTTTGTTT ACAGATTTGA CTCGAATCTA TCAGAATGTA AAAAGCTACC 13320 ACACCTAGAC ATTCAAAGAC AAGGAAATAA AGATGAATAA GAAAATATTA GAAACATTAG 13380 AGTTCGATAA GGTCAAGGCC TTGTTTGAGC CTCATTTGTT GACCGAGCAG GGCTTGGAGC 13440 AATTGAGACA ACTGGCTCCG ACTGCCAAAG CAGATAAAAT CAAACAGGCT TTTGCTGAGA 13500 TGAAGGAAAT GCAGGCTCTT TTCGTCGAGC AACCGCATTT TACTATTCTC TCAACTAAGG 13560 AAATTGCAGG AGTCTGCAAG AGGTTGGAGA TGGGAGCGGA TCTCAATATC GAGGAGTTCC 13620 TACTCTTGAA ACGCGTGCTT CTTGCCAGCC GAGAACTTCA AAATTTTTAC ACCAATCTGG 13680 AAAATGTCAG CTTGGAAGAA TTAGCCCTTT GGTTTGAGAA ATTACATGAT TTTCCGCAAT 13740 TACAAGGAAA TCTTCAGGCC TTTAATGATG CGGGTTTCAT TGAAAATTTT GCCAGTGAAG 13800 AATTGGCGCG AATCCGTCGA AAAATACATG ATAGCGAGAG TCAGGTACGC GATGTTTTAC 13860 AAGACTTGCT CAAGCAAAAA GCGCAGCTGT TGACGGAAGG AATTGTTGCT AGCAGAAATG 13920

GCCGTCAGGT	TTTACCAGTC	AAAAACACCT	ACCGCAATAA	GATTGCAGGT	GTCGTTCATG	13980
ATATTTCTGC	TAGTGGAAAC	ACCGTCTATA	TCGAACCCCG	TGAGGTAGTC	AAACTGAGCG	14040
AAGAAATTGC	TAGTCTGCGA	GCAGATGAGC	GCTATGAAAT	GCTTCGCATT	CTCCAAGAAA	14100
TTTCTGAGCG	TGTCCGCCCT	CATGCGGCTG	AGATTGCTAA	TGACGCTTGG	ATTATCGGTC	14160
ATCTGGACTT	GATTCGTGCC	AAGGTTCGAT	TTATCCAAGA	AAGACAAGCA	GTCGTGCCTC	14220
AGCTGTCAGA	AAATCAAGAG	ATTCAACTGC	TCCATGTCTG	CCATCCTTTG	GTCAAAAATG	14280
CCGTCGCAAA	TGATGTCTAT	TTTGGTCAAG	ATTTAACAGC	TATTGTCATT	ACAGGTCCCA	14340
ATACAGGTGG	GAAGACCATC	ATGCTCAAAA	CTCTGGGCTT	GACACAGGTC	ATGGCCCAGT	14400
CAGGATTGCC	GATTTTAGCA	GACAAGGGAA	GTCGTGTTGG	TATTTTTGAA	GAAATCTTTG	14460
CTGATATTGG	AGATGAGCAG	TCTATTGAGC	AGAGCTTGTC	TACCTTCTCT	AGTCATATGA	14520
CCAATATCGT	GGATATTCTT	GGCAAGGTCA	ACCAACATTC	ACTCTTACTT	TTGGATGAGT	14580
TGGGGGCTGG	TACTGATCCC	CAAGAGGGAG	CAGCCCTTGC	CATGGCTATT	CTGGAGGACC	14640
TTCGCCTGCG	TCAAATCAAG	ACCATGGCGA	CGACCCACTA	TCCAGAACTC	AAGGCCTACG	14700
GTATTGAGAC	AGCCTTTGTG	CAAAATGCCA	GTATGGAGTT	TGATACTGCA	ACTCTTCGCC	14760
CGACCTATCG	CTTTATGCAG	GGTGTTCCTG	GCCGAAGTAA	TGCCTTTGAA	ATTGCCAAAC	14820
GTCTAGGCCT	ATCTGAAGTT	ATCGTAGGAG	ATGCCAGTCA	GCAGATCGAT	CAGGACAATG	14880
ACGTCAATCG	TATCATTGAG	CAATTAGAAG	AGCAGACGCT	GGAAAGCCGC	AAACGTTTGG	14940
ACAATATCCG	TGAGGTGGAG	CAAGAAAATC	TCAAGATGAA	CCGTGCGCTA	AAAAAACTCT	15000
ACAACGAGCT	TAATCGTGAA	AAGGAAACCG	AGCTTAACAA	GGCGCGTGAA	CAGGCTGCTG	15060
AGATTGTGGA	TATGGCCCTA	AGTGAAAGTG	ACCAGATTCT	CAAAAATCTC	CACAGTAAAT	15120
CCCAACTCAA	GCCCCACGAA	ATCATTGAAG	CCAAGGCCAA	GTTGAAAAAA	TTGGCTCCTG	15180
AAAAAGTGGA	CTTGTCTAAA	AATAAGGTCC	TTCAAAAGGC	CAAGAAAAA	CGAGCTCCAA	15240
AGGTGGGAGA	TGATATCGTG	GTTCTCAGTT	ATGGTCAGCG	TGGTACCTTG	ACCAGTCAAC	15300
TCAAGGACGG	TCGCTGGGAA	GCCCAAGTTG	GCTTGATTAA	GATGACCTTG	GAAGAGAAAG	15360
AGTTTGATCT	TGTTCAAGCC	CAGCAAGAAA	AACCAGTCAA	GAAGAAACAG	GTCAATGTTG	15420
TGAAACGAAC	TTCTGGGCGA	GGACCTCAAG	CTAGACTGGA	TCTTCGAGGC	AAGCGCTATG	15480
AAGAAGCCAT	GAATGAGCTA	GATACCTTCA	TCGACCAAGC	CTTGCTTAAC	AATATGGCTC	15540
AAGTTGATAT	CATCCATGGT	ATCGGAACAG	GAGTCATCCG	TGAAGGAGTT	ACCAAATACT	15600
TGCAAAGAAA	CAAACATGTC	AAGAGTTTCG	GCTATGCCCC	ACAAAATGCT	GGAGGCAGTG	15660

			660			
GTGCGACTAT	TGTCACTTTT	AAAGGATAGC	AGTATTCTGG	ACTTTATAAA	GTAAAAACTG	15720
TTGAACTAAT	TTTTACTAAT	AAACACATTG	ACAAAAGCCA	ACATTTTTTG	TAAAATTAGA	15780
ATCAATTAAA	TACCAACACC	GAATGAAGTT	TAATAGAAGT	GGGGAATCGT	TTGATTTTCC	15840
ATGACTGTAA	ATGGACGGAA	CTCTGGAGAG	ACCGTAAAGG	CACCGAAGGG	CAAGGCAGGC	15900
AACTGCTCAA	ACTCTCAGGT	AAAAGGACAG	AGCTAGGATA	GACCGCTTTT	TAGCATTTAT	15960
CTAAGCATTC	CAGAGTACAT	GTATCTTGCA	TGTGCTCTTT	CTTTTGGGGT	TGAAACGATA	16020
GGAGAAGGAA	ATGTTAGAAT	TGCTTAAATC	AATCGATGCT	TTTGCTTGGG	GACCGCCCCT	16080
CTTGATTTTA	TTGGTCGGAA	CAGGGATTTA	CCTAACTATT	CGGCTAGGAC	TCTTGCAGGT	16140
TTTGCGTCTA	CCCAAGGCCT	TTCAGCTTAT	TTTTATCCAG	GATAAGGGAC	ATGGTGATGT	16200
ATCCAGTTTT	GCAGCTCTGT	GTACAGCCTT	GGCATCAACT	GTTGGAACAG	GAAATATCAT	16260
AGGAGTTGCG	ACGGCTATCA	AGGTTGGTGG	ACCAGGAGCT	CTATTTTGGA	TGTGGATGGC	16320
GGCTTTCTTT	GGAATGGCTA	CCAAGTATGC	GGAAGGACTC	TTGGCCATCA	AATACCGCAC	16380
CAAGGACGAC	CATGGTGCAG	TAGCGGGAGG	TCCCATGCAT	TATATCCTTC	TAGGGATGGG	16440
AGAAAAGTGG	CGACCACTTG	CTGTTTTGTT	TGCAGTAGCA	GGAGTATTGG	TTGCTCTCTT	16500
GGGAATCGGA	ACCTTCACCC	AAGTCAACTC	GATTGCAGAA	TCTATCCAAA	ATACAACGAC	16560
GATTTCGCCA	GCCATCACAG	CTCTCGTCTT	GTCTGTCTTT	GTAGCGATTG	CAGTCTTTGG	16620
TGGACTCAAG	TCTATTTCTA	AGGTTTCAAC	TACTGTTGTT	CCTTTTATGG	CCATCATTTA	16680
TATCTTAGGA	ACTCTTACAG	TTATTTTCTT	TAATATCGGA	AAAATCCCTG	GCACAATCGC	16740
TTTAGTCTTT	ACCTCAGCTT	TTAGTCCCCT	TGCTGCGGTA	GGTGGATTTG	CTGGTGCTAG	16800
CGTTCGGATG	GCTATTCAAA	ATGGTGTGGC	GCGTGGTGTG	TTCTCAAACG	AATCTGGTCT	16860
GGGTTCTGCT	CCTATTGCAG	CTGCAGCTGC	CAAGACAAAT	GAACCAGTAG	AGCAAGGTTT	16920
GATTTCCATG	ACAGGAACCT	TTATTGATAC	CCTCATCATT	TGTACTCTAA	CTGGTTTGAC	16980
CATCTTGGTA	ACTGG					16995

(2) INFORMATION FOR SEQ ID NO: 83:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28473 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:

CCGGGGCTTT TGTAGTATAA TAGAGATACG TTTTGAAAGT AGGAGGTATC TATGGACTTA

ACTAAGCGCT	TTAATAAACA	GTTAGATAAA	ATTCAAGTTT	CGTTGATTCG	TCAGTTTGAC	120
CAGGCTATTT	CGGAGATTCC	TGGGGTCTTG	CGTTTGACCT	TGGGGGAACC	TGATTTTACA	180
ACGCCAGACC	ATGTCAAGGA	GGCGGGCAAG	CGAGCGATTG	ATCAGAACCA	ATCCTACTAT	240
ACAGGGATGA	GTGGTCTGCT	GACTCTACGT	CAGGCAGCCA	GTGACTTTGT	TAAGGAAAAG	300
TACCAACTGG	ACTATGCTCC	TGAAAATGAA	ATCTTGGTTA	CAATTGGGGC	GACAGAGGCT	360
TTATCTGCGA	CTTTGACGGC	TATTTTGGAA	GAGGGAGACA	AGGTACTTTT	GCCAGCTCCT	420
GCTTATCCAG	GCTATGAACC	GATTGTTAAC	TTAGTTGGGG	CAGAAATTGT	TGAGATTGAT	480
ACGACTGAAA	ATGGTTTTGT	CTTGACTCCT	GAGATGTTGG	AGAAGGCCAT	TTTGGAGCAG	540
GGTGATAAGC	TCAAGGCGGT	TATTCTCAAC	TATCCAGCCA	ATCCGACAGG	AATT'ACCTAC	600
AGTCGAGAGC	AGTTAGAGGC	CTTGGCAGCT	GTTTTACGCA	AGTACGAAAT	TTTTGTTGTC	660
TGTGATGAGG	TTTACTCAGA	ATTGACCTAC	ACAGGCGAAG	CCATGTGTCT	CTAGGAACGA	720
TGTTGAGAGA	CCAGGCTATT	ATTATCAATG	GTTTGTCTAA	ATCGCATGCC	ATGACAGGTT	780
GGCGTTTGGG	GCTGATTTTC	GCTCCTGCGA	CCTTCACAGC	CCAGTTAATC	AAGAGTCACC	840
AGTACTTGGT	CACTGCCGCA	AATACCATGG	CGCAACATGC	TGCGGTAGAA	GCCTTGACGG	900
CTGGTAAAAA	CGATGCGGAC	CCATGAAGAA	GGAATATATC	CAACGTCGGG	ACTATATCAT	960
CGAAAAAATG	ACTGCTCTTG	GTTTTGAGAT	TATCAAACCA	GACGGTGCCT	TCTATATTTT	1020
TGCTAAAATT	CCAGCGGGCT	ACAATCAAGA	CTCCTTTGCT	TTTCTGAAGG	ATTTTGCTCA	1080
GAAGAAGGCC	GTTGCCTTTA	TCCCTGGTGC	AGCCTTTGGA	CGTTACGGGG	AAGGCTACGT	1140
CCGCCTATCT	TATGCAGCCA	GCATGGAGAC	TATCAAAGAA	GCCATGAAAC	GACTTGAGGA	1200
GTACATGAGA	GAAGCATGAT	TCAGTCTATC	ACGAGTCAAG	GCTTGGTGCT	TTACAATCGC	1260
AATTTTCGTG	AGGATGACAA	GCTCGTCAAA	ATTTTTACAG	AGCAGGTTGG	CAAACGCATG	1320
TTTTTTGTCA	AACACGCTGG	TCAGTCTAAG	CTGGCGCCTG	TTATTCAGCC	CTTGGTGCTG	1380
GCACGATTTC	TCTTGCGAAT	CAATGATGAC	GGACTCAGTT	ACATCGAAGA	CTATCATGAG	1440
GTCATGACTT	TTCCCAAGAT	TAATAGTGAC	CTCTTTGTCA	TGGCCTATGC	GACCTATGTG	1500
GCAGCTCTTG	CAGATGCTAG	TTTGCAGGAC	AATCAGCAGG	ATGCTCCCTT	GTTTGCTTTT	1560
TTGCAAAAGA	CTTTGGAGTT	GATGGAAGCA	GGCTTGGATT	ATCAGGTTTT	GACCAATATT	1620
TTTGAAATTC	AAATTTTGAC	TCGATTTGGA	ATCAGCCTCA	ATTTTAATGA	GTGTGTCTTC	1680
TGCCATCGGG	TTGGTCAGGC	TTTTGACTTT	TCTTTCAAAT	ATGGAGCCTG	CCTCTGTCCA	1740
GAGCATTATC	ATGAGGATAA	GAGACGTTGT	CATCTCAATC	CCAATATCCC	CTATCTGCTC	1800

AATCAATTTC	AAGCTATTGA	TTTTGAGACT	662 TTGGAGACCA	TTTCGCTCAA	GCCTGGAATC	1860
		TATGGATCAA				1920
		TTCCCTAGCA				
						1980
		GATGCCATGG				2040
		TCTGACTTTT				2100
AAGCTAAAAT	CAAGCAATAT	CTGACAGCGA	CAGAGCGCGT	CAGCATTATC	CATACGGATG	2160
AGAAGATTGA	TTCGGATGAT	GAACCTACGA	GAGCTATTCG	GAATAAGAAA	AATGCCAGTA	2220
TGGTATTGGC	AGCCAAGGCT	GTCAAAGATG	GTGAAGCAGA	CGCTGTCCTT	TCGGCTGGGA	2280
ATACAGGTGC	CTTGTTGGCA	GCAGGATTCT	TCATCGTGGG	TCGTATCAAG	AATATCGACC	2340
GTCCTGGACT	CATGTCTACC	TTGCCTACCG	TTGATGGAAA	AGGTTTTGAC	ATGCTAGACC	2400
TTGGTGCCAA	TGCAGAAAAT	ACAGCCCAGC	ACCTCCATCA	ATATGCGGTT	CTAGGTTCCT	2460
TCTATGCTAA	AAATGTCCGT	GGCATTGCGC	AACCACGCGT	TGGTTTGCTC	AACAACGGAA	2520
CAGAGAGTAG	CAAGGGCGAC	CCGCTTCGTA	AGGAAACTTA	TGAATTACTG	GCGGCTGATG	2580
AAAGTTTGAA	CTTTATCGGA	AACGTGGAAG	CGCGTGATTT	GATGAATGGC	GTTGCAGATG	2640
TTGTTGTGGC	AGATGGTTTC	ACGGGAAACG	CTGTGCTCAA	ATCCATCGAA	GGGACAGCTA	2700
TGGGAATCAT	GGGCTTGCTC	AAGACAGCTA	TTACAGGTGG	TGGTCTTCGA	GCGAAACTAG	2760
GTGCCCTCCT	TCTCAAGGAC	AGCCTCAGTG	GTTTGAAAAA	ACAGCTCAAT	TATTCAGATG	2820
TTGGTGGAGC	GGTCTTGTTT	GGTGTTAAGG	CACCTGTTGT	CAAGACTCAT	GGCTCAAGCG	2880
ATGCCAAGGC	TGTTTATAGT	ACGATTCGTC	AGATCCGTAC	CATGCTAGAA	ACAGACGTGG	2940
TTGCCCAGAC	TGCGCGTGAA	TTTTCAGGAG	AATAAAAGAG	ATGACAGAAA	AAGAAATTTT	3000
TGACCGTATT	GTGACCATTA	TCCAAGAGCG	ACAGGGAGAG	GACTTTGTCG	TGACAGAATC	3060
CTTGAGTCTG	AAAGACGATT	TGGATGCGGA	TTCTGTTGAC	TTGATGGAGT	TTATCTTGAC	3120
TCTGGAAGAT	GAATTTAGTA	TCGAAATCAG	CGATGAAGAA	ATTGACCAAC	TCCAAAACGT	3180
AGGAGATGTG	GTTAAAATCA	TTCAAGGAAA	ATAGCAATCG	GAGTTCCAAG	TCAACGGAAG	3240
TAGATGGTTT	TTAGAAATGA	GAAATATCGG	ACAAGCTGGT	AAAATCTTGG	CTGACAGTGG	3300
TTATCAAGGG	CTCATGAAGA	TATATCCTCA	AGCACAAACT	CCACGTAAAT	CCAGCAAACT	3360
CAAGCCGCTA	ACAGTTGAAG	ATAAAGCCTG	TAATCATGCG	CTATCTAAGG	AGATAAGCAA	3420
GGTTGAGAAT	ATCTTTGCCA	AAGTAAAAAC	GTTTAAAATG	TTTTCAACAA	CCTATCGAAA	3480
		TACGAATGAA				3540
		AGTCTAATAG				3600
	CONCOR			*** THOUNDUC	CIIIIIA	3000

AAAATAGAGA	TGATTTTGAA	ACAAAAAAGC	TAATTCAAGA	CGTTTCGATG	CCAATTCAAG	3660
ATTTGGATGA	AAAAATTAA	TAGATACTGT	TATACTAAAC	TTGTCAAGTT	TGTAACAAGA	3720
САААТАТТАА	АААТААААА	GAGGTATTCG	TTATGAATAC	AAAAACGATG	TCACAATTTG	3780
AAATTATGGA	TACTGAGATG	CTTGCTTGCG	TTGAAGGTGG	CGGATGCAAT	TGGGGAGATT	3840
TTGCCAAAGC	AGGTGTTGGA	GGAGGAGCAG	CACGAGGTCT	TCAGCTAGGA	ATTAAAACAA	3900
GAACATGGCA	AGGTGCAGCA	ACTGGTGCTG	TGGGAGGAGC	TATACTTGGA	GGTGTGGCCT	3960
ATGCAGCGAC	ATGTTGGTGG	TAATTATGGA	TTTTAAAAGT	TTTATTATTG	GTTTAGTAGT	4020
TGGTATATTT	GGTCCTTATA	TGGATGATTT	AATTAGAAAA	AAATTTTTAA	AGTCTTCGGA	4080
GAAGAAAACA	GAAAAATCTG	ТТААААААТА	ATCAAAACTA	TAAATGATGA	ATCTGAATCA	4140
AAATTATTT	GCGCATGTAA	AGAGGAGTCT	TATAGTAACG	AGTCAAAAAA	GGAGTAACTA	4200
TGAATCGTAA	TTTAGAACGG	TGTTATCTAT	TCTGACTAGG	AATAGATCAT	ACCAGAGGTA	4260
GCTTAGAAAT	AGCAGAGACA	TTAGAAATTG	AAGTAATAAA	TAGGATGTCG	TAAGTGTTAC	4320
TATCAATGAT	TTATTTGTTT	CAAGCTTGCC	TAGGGTGACA	GTAAAAAATC	AATTTCCTTT	4380
CAATAGCATA	TTTTTAGTGG	GCAGGACTCT	TGTTCTGCCT	ATTTTTTTAT	CCAAAAAGTG	4440
CAGTTGGGAG	GGAGATAGGC	TCATTTGGGA	AGGAAGTCCA	GTTTTTGTTT	AGTGATTGGG	4500
GTAAGATAGT	TGTTATCAGA	TGAGTTAATA	CTCTTCGAAA	ATCAAATTCA	AACCACGTCA	4560
ACGTCGCCTT	GCCGTATATA	TGTGACTGAC	TTCGTCAGTC	CTATCTACAA	CCTCAAAACA	4620
GTGTTTTGAG	CAGCCTACGG	CTAGTTTCCT	AGTTTGCTCT	TTGATTTTCA	TTGAGTATTA	4680
GGGAAAAGGA	GATGAATATG	AAATTTGGGA	AACGTCATTA	TCGTCCGCAG	GTGGATCAGA	4740
TGGACTGCGG	TGTAGCTTCA	TTAGCCATGG	TTTTTGGCTA	CTATGGTAGT	TATTATTTT	4800
TGGCTCACTT	GCGAGAATTG	GCTAAGACGA	CCATGGATGG	GACGACGGCT	TTGGGCTTGG	4860
TCAAGGTGGC	AGAGGAGATT	GGTTTTGAGA	CGCGAGCCAT	TAAGGCAGAT	ATGACGCTTT	4920
TTGACTTGCC	GGATTTAACT	TTTCCTTTTG	TTGCCCATGT	GCTTAAGGAA	GGGAAATTGC	4980
TCCACTACTA	TGTGGTGACT	GGGCAGGATA	AGGATAGCAT	TCATATTGCC	GATCCAGATC	5040
CCGGGGTGAA	GTTGACTAAA	CTGCCACGTG	AGCGTTTTGA	GGAAGAATGG	ACAGGAGTGA	5100
CTCTTTTTAT	GGCACCTAGT	CCAGACTATA	AGCCTCATAA	GGAACAAAAA	AATGGTCTGC	5160
TCTCTTTTAT	CCCTATATTA	GTGAAGCAGC	GTGGCTTGAT	TGCCAATATC	GTTTTGGCAA	5220
CACTCTTGGT	AACCGTGATT	AACATTGTGG	GTTCTTATTA	TCTGCAGTCT	ATCATTGATA	5280
CCTATGTGCC	AGATCAGATG	CGTTCGACAC	TAGGGATTAT	TTCTATTGGG	CTAGTCATCG	5340

664 TCTACATCTT CCAGCAAATC TTGTCTTACG CTCAGGAGTA TCTCTTGCTT GTTTTGGGGC 5400 AACGCTTGTC GATTGACGTG ATTTTGTCCT ATATCAAGCA TGTTTTTCAC CTCCCTATGT 5460 CCTTCTTTGC GACACGCAGG ACAGGGGAGA TCGTGTCTCG TTTTACAGAT GCTAACAGTA 5520 TCATCGATGC GCTGGCTTCG ACCATCCTTT CGATTTTCCT AGATGTGTCA ACGGTTGTCA 5580 TTATTTCCCT TGTTCTATTT TCACAAAATA CCAATCTCTT TTTCATGACT TTATTGGCGC 5640 TTCCTATCTA CACAGTGATT ATCTTTGCCT TTATGAAGCC GTTTGAAAAG ATGAATCGGG 5700 ATACCATGGA AGCCAATGCG GTTCTGTCTT CTTCTATCAT TGAGGACATC AACGGTATTG 5760 AGACTATCAA GTCCTTGACC AGTGAAAGTC AGCGTTACCA AAAAATTGAC AAGGAATTTG 5820 TGGATTATCT GAAGAAATCC TTTACCTATA GTCGAGCAGA GAGTCAGCAA AAGGCTCTGA 5880 AAAAGGTTGC CCATCTCTTG CTTAATGTCG GCATTCTCTG GATGGGGGCT GTTCTGGTCA 5940 TGGATGGCAA GATGAGTTTG GGGCAGTTGA TTACCTATAA TACCTTGCTG GTTTACTTTA 6000 CTAATCCTTT GGAAAATATC ATCAATCTGC AAACCAAGCT TCAGACAGCG CAGGTTGCCA 6060 ATAACCGTCT AAATGAAGTG TATCTAGTAG CTTCTGAGTT TGAGGAGAAG AAAACAGTTG 6120 AGGATTTGAG CTTGATGAAG GGAGATATGA CCTTCAAGCA GGTTCATTAC AAGTATGGCT 6180 ATGGTCGAGA TGTCTTATCG GATATCAATT TAACCGTTCC CCAAGGGTCT AAGGTGGCTT 6240 TTGTGGGGAT TTCAGGGTCA GGTAAGACGA CTTTGGCCAA GATGATGGTT AATTTTTACG 6300 ACCCAAGTCA AGGGGAGATT AGTCTGGGTA GTGTCAATCT CAATCAGATT GATAAAAAAG 6360 CCCTGCGCCA GTACATCAAC TATCTGTCTC AACAGCCCTA TGTCTTTAAC GGAACGATTT 6420 TGGAGAATCT TCTTTTGGGA GCCAAGGAGG GGACGACACA GGAAGATATC TTACGGGCGG 6480 TCGAATTGGC AGAGATTCGA GAGGATATCG AGCGCATGCC ACTGAATTAC CAGACAGAAT 6540 TGACTTCGGA TGGGGCAGGG ATTTCAGGTG GTCAACGTCA GAGAATCGCT TTGGCGCGTG 6600 CTCTCTTGAC AGATGCGCCG GTCTTGATTT TGGATGAGGC GACTAGCAGT TTGGATATTT 6660 TGACAGAGAA GCGGATTGTC GATAATCTCA TTGCTTTGGA CAAGACCTTG ATTTTCATTG 6720 CTCACCGCTT GACTATTGCT GAGCGGACAG AGAAGGTAGT TGTCTTGGAT CAGGGCAAGA 6780 TTGTCGAAGA AGGAAAGCAT GCTGATTTGC TTGCACAGGG TGGCTTTTAC GCCCATTTGG 6840 TCAATAGCTA GAAAGAGGAG AGGATGAAAC CAGAATTTTT AGAAAGTGCG GAGTTTTATA 6900 ATCGTCGTTA CCATAATTTT TCCAGTAGTG TGATTGTACC CATGGCCCTT CTGCTTGTGT 6960 TTTTACTTGG CTTTGCAACT GTTGCAGAGA AGGAGATGAG TTTGTCCACT AGAGCTACTG 7020 TCGAACCTAG TCGTATCCTT GCAAATATCC AGTCAACTAG CAACAATCGT ATTCTTGTCA 7080 ATCATTTGGA AGAAAATAAG CTGGTTAAGA AGGGGGATCT TTTGGTTCAA TACCAAGAAG 7140

GGGCAGAGGG	TGTCCAAGCG	GAGTCCTATG	CCAGTCAGTT	GGACATGCTA	AAGGATCAAA	7200
AAAAGCAATT	GGAGTATCTG	CAAAAGAGCC	TGCAAGAAGG	GGAGAACCAC	TTTCCAGAGG	7260
AGGATAAGTT	TGGCTACCAA	GCCACCTTTC	GCGACTACAT	CAGTCAAGCA	GGCAGTCTTA	7320
GGGCTAGTAC	ATCGCAACAA	AATGAGACCA	TCGCGTCCCA	GAATGCAGCA	GCTAGCCAAA	7380
CCCAAGCCGA	AATCGGCAAC	CTCATCAGTC	AAACAGAGGC	TAAAATTCGC	GATTACCAGA	7440
CAGCTAAGTC	AGCTATTGAA	ACAGGTGCTT	CCTTGGCCGG	TCAGAATCTA	GCCTACTCTC	7500
TTTACCAGTC	CTACAAGTCT	CAGGGCGAGG	AAAATCCCCA	AACTAAGGTT	CAGGCAGTTG	7560
CACAGGTTGA	AGCACAGATT	TCTCAGTTAG	AATCTAGTCT	TGCTACTTAC	CGTGTCCAGT	7620
ATGCAGGTTC	AGGTACCCAG	CAAGCCTATG	CGTCAGGGTT	AAGCAGTCAA	TTGGAATCCC	7680
TTAAATCCCA	ACACTTGGCA	AAGGTTGGTC	AGGAATTGAC	CCTTCTAGCC	CAGAAAATTT	7740
TGGAGGCAGA	GTCAGGTAAG	AAGGTACAGG	GAAATCTTTT	AGACAAGGGG	AAAGTTACGG	7800
CGAGTGAGGA	TGGGGTGCTT	CATCTTAATC	CTGAGACCAG	TGATTCTAGC	ATGGTTGCAG	7860
AAGGTGCCCT	ACTAGCCCAA	CTTTATCCAT	CTTTGGAAAG	AGAAGGGAAA	GCCAAACTCA	7920
CAGCTTATCT	AAGTTCAAAA	TATGTAGCAA	GAATCAAGGT	CGGTGATTCT	GTTCGCTATA	7980
CTACGACTCA	TGATGCCGGG	AATCAACTTT	TCCTAGATTC	TACTATTACA	AGTATTGATG	8040
CGACAGCTAC	TAAGACTGAG	AAAGGGAATT	TCTTTAAAAT	CGAGGCGGAG	ACTAATCTAA	8100
CTTCGGAGCA	GGCTGAAAAA	CTTAGGTACG	GGGTGGAAGG	CCGCTTGCAG	ATGATTACGG	8160
GCAAGAAAAG	TTACCTACGT	TATTATTTGG	ATCAATTTTT	GAACAAAGAG	TAATGTTCGT	8220
GTTTTTAGAG	TTAAATAATT	TTTAAACTGT	GAGAAAGATT	CTTCTTGCAG	TTTTTTCTTT	8280
ACAATTTTTG	AAAAACATCT	ACTATTTATT	CGGTTAAATT	CTTGTGTTTT	TTGGTTTTTT	8340
GTGGTAAAAT	GTGCTCAAGT	AATACGAAAG	GCGAACTTTA	AAATGTCAAA	ACAATTGATC	8400
TATTCGGGAA	AAGCTAAAGA	TATCTATACA	ACTGAGGATG	AAAATCTTAT	TATTTCAACT	8460
TACAAGGACC	AGGCGACTGC	TTTCAACGGT	GTCAAGAAGG	AGCAGATTGC	AGGTAAGGGA	8520
GTCTTGAATA	ATCAGATCTC	ATCTTTTATT	TTTGAGAAAT	TAAATGTGGC	TGGTGTGGCG	8580
ACTCACTTTG	TGGAGAAACT	TTCAGACACG	GAACAACTCA	ATAAAAAGGT	TAAGATTATT	8640
CCTTTGGAAG	TCGTGCTCCG	СААСТАТАСТ	GCTGGTTCCT	TTTCAAAACG	TTTTGGTGTG	8700
GATGAGGGAA	TCGCCTTGGA	GACTCCGATT	GTCGAATTTT	ACTACAAAAA	TGATGATTTG	8760
GATGATCCAT	TTATCAATGA	TGAGCATGTG	AAATTCCTAC	AGATTGCGGG	TGACCAGCAG	8820
ATTGCCTACT	TGAAGGAAGA	AACGCGTCGT	ATCAATGAAC	TATTGAAAGT	CTGGTTTGCT	8880

666 GAGATTGGGC TTAAATTGAT TGACTTTAAG CTAGAGTTCG GTTTTGACAA GGATGGCAAG 8940 ATTATCTTGG CAGACGAATT TTCACCAGAT AACTGCCGCT TGTGGGACGC TGATGGCAAC 9000 CACATGGATA AGGATGTTTT CCGTAGAGGA TTGGGAGAAC TAACCGACGT TTATGAGATT 9060 GTTTGGGAAA AGTTGCAGGA ATTGAAATAA TCTGTTTGCA ACGGAAAACC TTCGTCTCTC 9120 AACTAAAAGG ACTCAGGCTG AAAAGGTCCC CCAGACCTTT TCACTCTGTA GAGAACTAGG 9180 TGAACTAACA GATGTTTACG AAATTGTCTG GGAAAAGTTG CAGGGTTTAA AATAACAACC 9240 TCAAGGCTGT TTGGGAATAT TGCAAGAGCT GAAATAAAGG AATAAGAATT GATGGATAAA 9300 CGTATTTTTG TTGAAAAAA GGCTGATTTT CAGGTCAAGT CAGAGAGTTT GGTTAGAGAG 9360 CTCCAGCACA ACTTGGGACT GTCAAGCTTG AAAAGTATTC GTATTGTGCA AGTATATGAT 9420 GTATTTGACT TGGCTGAGGA CTTGTTTGCA CCTGCAGAGA AGCACATTTT CTCTGAGCAG 9480 GTAACCGACC ATGTTTTAGA TGAAGTATCT GTGCAGGCGG ATCTTGCTAA CTATGCTTTC 9540 TTTGCCATTG AAAGTCTGCC AGGGCAGTTT GACCAGCGTG CAGCTTCGTC ACAGGAAGCC 9600 TTGCTTTTGT TGGGAAGTTC GAGTGACGTG ACAGTCAACA CAGCCCAACT TTACTTGGTG 9660 AATAAAGATA TTGATGCGAC TGAGTTGGAA GCTGTCAAAA ACTACCTGCT CAATCCAGTT 9720 GATTCTCGTT TCAAGGATAT CACGACAGGG ATTGCCAAGC AGGAGTTTTC AGAGTCAGAC 9780 AAGACCATTC CCAAATTGAC TTTCTTTGAA AGCTATGCAG CAGAAGACTT TGCTCGCTAC 9840 AAGGCCGAAC AAGGGATGGC CATGGAAGTG GATGATTTGC TCTTTATCCA AGACTACTTT 9900 AAGTCAATCG GGCGCGTGCC AACTGAGACT GAACTCAAGG TTTTGGACAC TTACTGGTCT 9960 GACCACTGCC GTCATACGAC TTTTGAGACA GAGTTGAAAC ACATCGACTT TTCAGCTTCT 10020 AAATTTCAAA AGCAATTGCA GTCAACCTAT GACAAGTATA TTGCCATGCG CGAGGAATTA 10080 GGTCGGTCTG AAAAACCACA AACCTTGATG GATATGGCGA CTATTTTCGG TCGTTATGAG 10140 CGTGCTAATG GACGATTGGA TGATATGGAA GTCTCTGACG AAATCAATGC CTGCTCAGTT 10200 GAAATTGAAG TGGACGTTGA TGGTGTCAAG GAACCTTGGC TCCTCATGTT TAAAAACGAA 10260 ACCCACAACC ATCCAACAGA AATTGAGCCA TTTGGTGGAG CGGCTACCTG TATTGGTGGA 10320 GCTATTCGTG ATCCGTTGTC AGGCCGTTCC TATGTTTACC AAGCCATGCG TATTTCAGGT 10380 GCTGGTGATA TTACAGCACC GATTTCGGAA ACTCGCGCTG GGAAATTGCC ACAACAAGTC 10440 ATTTCTAAAA CAGCAGCTCA TGGTTATTCT TCATATGGTA ACCAGATTGG GCTTGCAACA 10500 ACCTACGTTC GTGAATACTT CCACCCAGGC TTTGTAGCTA AACGTATGGA ACTTGGTGCC 10560 GTTGTTGGTG CGACTCCCAA GGGCAATGTT GTCCGTGAAA AACCTGAAGC AGGTGATGTG 10620 ATCATCCTTC TCGGAGGCAA AACAGGTCGT GATGGTGTCG GTGGTGCGAC GGGCTCTTCT 10680

AAGGTTCAAA	CAGTTGAGTC	TGTAGAGACT	GCTGGTGCTG	AGGTTCAAAA	AGGAAATGCC	10740
ATCGAAGAAC	GCAAGATTCA	GCGCCTCTTC	CGTAATGGCA	ATGTCACTCG	TCTGATCAAG	10800
AAGTCCAATG	ACTTTGGGGC	AGGCGGTGTC	TGTGTGGCTA	TCGGTGAATT	GGCAGACGGT	10860
CTTGAAATCG	ACCTCAACAA	GGTGCCTCTT	AAATACCAGG	GCTTGAATGG	TACAGAAATT	10920
GCCATCTCTG	AATCACAAGA	ACGGATGGCG	GTCGTGGTTC	GTCCTGAAGA	TGTGGATGCC	10980
TTCGTTGCCG	AATGTAACAA	AGAAAATATT	GATGCTGTTG	TGGTGGCGAC	AGTAACTGAA	11040
AAACCAAATC	TTGTCATGCA	CTGGAATGGT	GAGACAATCG	TTGACTTGGA	GCGTCGTTTC	11100
CTTGACACCA	ATGGTGTGCG	CGTGGTTGTC	GATGCCAAAG	TTGTGGACAA	GGATGTCAAA	11160
CTCCCAGAAG	AGCGTCAAAC	ATCTGCTGAA	ACACTGGAAT	CAGATACCCT	TACGGTTCTA	11220
TCTGACCTCA	ACCATGCAAG	TCAAAAAGGA	TTACAGACTA	TCTTTGACTG	CTCTGTTGGA	11280
CGCTCAACGG	TTAATCACCC	ACTTGGTGGT	CGTTACCAAC	TCACACCAAC	TGAGGCATCT	11340
GTGCAGAAAT	TGCCAGTTCA	ACACGGTGTG	ACTCATACTG	CGTCGGTCAT	TGCTCAAGGT	11400
TTCAACCCAT	ATGTAGCTGA	ATGGTCTCCA	TACCACGGTG	CTGCTTATGC	GGTTATCGAA	11460
GCAACTGCTC	GTTTGGTGGC	TGCTGGTGCC	AACTGGTTCA	AGGCTCGTTT	CTCTTACCAA	11520
GAGTATTTCG	AGCGTATGGA	TAAACAAGCA	GAGCGTTTCG	GTCAGCCAGT	AGCTGCTCTT	11580
CTAGGTTCTA	TTGAAGCACA	AATTCAGCTT	GGCTTGCCAT	CTATCGGTGG	TAAGGACTCC	11640
ATGTCTGGTA	CCTTTGAAGA	ATTGACCGTT	CCGCCAACCT	TGGCTGCCTT	TGGGGTGACG	11700
ACGGCAGATA	GCCGTAAGGT	GCTCTCTCCA	GAATTTAAAG	CTGTTGGGGA	AAATATCTAC	11760
TACATCCCAG	GTCAAGCCCT	CTCTGCAGAG	ATTGATTTTG	ACTTGATTAA	GAAAAATTTT	11820
GCTCAGTTTG	AAGCCATCCA	AGCTGACCAT	AAAGTGACAT	CTGCATCAGC	TGTCAAATAC	11880
GGTGGTGTAG	TTGAAAGTTT	GGCTCTTGCT	ACCTTTGGAA	ACTATATTGG	TGCAGAGGTG	11940
ACCTTGCCTG	AACTTGAAAC	AGCTTTGACA	GCTCAATTAG	GCGGCTTTGT	CTTCACATCT	12000
CCTGAAGAAA	TTGCTGGAGT	AGAGAAGGTT	GGACAAACGA	AAGCAGACTT	TACACTGACT	12060
GTCAACGGTG	TGAAGCTAGA	TGGACACAAG	CTTGACAGTG	CATTTCAAGG	GACATTGGAA	12120
GAAGTTTACC	CAACAGAATT	TACCCAAGCG	AAAGAACTAG	AAGAAGTACC	AGCTGTGGCA	12180
TCAGATGTTG	TGATTAAAGC	CAAAGAAAAG	GTTGAAAAAC	CTGTGGTTTA	CATCCCAGTC	12240
TTTCCAGGAA	CCAACTCAGA	ATATGATTCA	GCTAAGGCCT	TCGAAAAAGA	AGGTGCAGAG	12300
GTCAATTTGG	TGCCATTCGT	GACCTTGAAT	GAAGAAGCTA	TTGTCAAGTC	AGTTGAAACT	12360
ATGGTTGACA	ATATCGACAA	GACTAATATT	CTCTTCTTTG	CTGGTGGATT	CTCGGCTGCG	12420

668

GATGAACCAG ATGGTTCAGC TAAGTTTATC GTCAATATCC TGCTTAATGA AAAAGTGCGT 12480 GTGGCTATTG ATAGCTTTAT CGCCCGTGGT GGTTTGATTA TCGGTATTTG TAATGGATTC 12540 CAAGCCTTAG TCAAATCGGG TCTCCTACCC TACGGAAACT TTGAAGCTGC TAACAGTACT 12600 AGCCCAACCC TCTTCTACAA TGATGCCAAC CAACACGTGG CCAAGATGGT GGAAACTCGC 12660 ATTGCCAATA CCAACTCACC ATGGTTGGTT GGTGTGCAAG TGGGCGATAT CCACGCTATT 12720 CCTGTTTCGC ACGGTGAAGG GAAGTTTGTC GTGACGGCTG AGGAATTTGC AGAGCTCCGT 12780 GACAATGGAC AAATTTTCAG CCAATACGTT GACTTTAACG GTAAACCAAG TATGGATTCT 12840 AAGTACAATC CGAATGGTTC TGTCCATGCC ATCGAAGGAA TTACCAGCAA GAATGGTCAA 12900 ATCATCGGTA AGATGGGCCA CTCAGAACGT TATGAGGATG GTCTTTTCCA AAATATCCCA 12960 GGCAATAAAG ACCAACACCT GTTCGCATCA GCGGTTAAAC ATTTCACTGG AAAATAAGAC 13020 TTACAGATTT TCTAATAGAT AGTATCAGTA ATGTAAAAGT CATGTAAATC TAGCTCTTGA 13080 TGATTACAAA TGAAAATTAG GTATAAAAAA TGACATACGA AGTAAAATCT CTTAATGAAG 13140 AATGTGGTGT TTTCGGTATT TGGGGACATC CAGATGCTGC TAAGTTGACC TATTTTGGAC 13200 TCCACAGTCT TCAACACCGT GGTCAGGAGG GGGCAGGAAT CCTCTCCAAT GATCAAGGAC 13260 AACTGAAGCG CCATCGTGAC ATGGGGCTTT TATCAGAAGT TTTCAGAAAT CCAGCTAATT 13320 TGGATAAATT GACAGGAGCT GGTGCGATTG GGCATGTGCG TTATGCGACT GCTGGCGAAG 13380 13440 CTCATAATGG AAATCTGACC AATGCAGCCT CTCTCAAGAA AGAACTGGAA CAAAGAGGAG 13500 CAATTTTCAG CGCGACTTCG GACTCTGAAA TCTTGGCTCA CCTCATTCGT CGCAGTCATA 13560 ATCCTAGCCT GATGGGCAAA ATCAAGGAAG CGCTCAGCCT TGTCAAAGGT GGTTTTGCCT 13620 ATATCTTGCT GTTTGAGGAC AAGTTGATTG CGGCTCTTGA CCCAAATGGA TTCCGACCGC 13680 TTTCGATTGG TAAAATGGCT AATGGAGCAG TTGTTGTATC TTCTGAAACC TGTGCTTTTG 13740 AGGTCATTGG TGCCGAGTGG ATTCGTGATT TGAAGCCAGG TGAGATTGTG ATCATTGATG 13800 ACGAGGGCAT TCAGTATGAC AGCTATACAG ATGATACCCA GTTGGCGGTT TGTTCTATGG 13860 AGTATATCTA CTTTGCTCGC CCTGATTCTA ATATCCACGG TGTCAATGTC CATACGGCAC 13920 GTAAGAGAAT GGGAGCGCAA TTGGCGCGAG AATTTAAGCA TGAGGCAGAT ATTGTAGTTG 13980 GTGTGCCCAA TTCTTCCCTA AGCGCGGCTA TGGGATTTGC GGAAGAATCA GGCTTACCAA 14040 ATGAAATGGG TCTGATCAAA AACCAATACA CCCAGCGAAC TTTTATCCAA CCGACTCAAG 14100 AATTGCGGGA GCAAGGAGTG CGGATGAAAC TGTCTGCTGT TTCGGGTGTT GTCAAAGGCA 14160 AACGTGTGGT CATGGTGGAT GATTCCATTG TACGTGGAAC AACCTCTCGT CGTATCGTTC 14220

AGCTCTTGAA	AGAAGCGGGT	GCGACTGAGG	TTCACGTTGC	CATTGGAAGT	CCTGCACTAG	14280
CGTATCCATG	TTTCTACGGG	ATTGATATCC	AGACCCGTCA	GGAGCTGATT	GCAGCCAATC	14340
ATACGGTCGA	AGAAACTCGC	CAAATCATTG	GTGCGGACAG	TCTGACTTAT	CTTTCAATTG	14400
ATGGCTTGAT	TGAGTCGATT	GGTATCGAAA	CAGATGCGCC	GAACGGTGGT	CTCTGTGTCG	14460
CTTACTTTGA	CGGTGACTAC	CCAACGCCTC	TTTATGACTA	CGAAGAAGAC	TATCGTAGAA	14520
GTTTGGAAGA	AAAGACCAGT	TTTTACAAGT	AGGCGACAGA	TTCTCCATTA	AAGAAAAGGA	14580
ТАААТАААА	GACAAATAAA	AATGCATATG	CCTCACGTCT	CACTACTGAC	TAAAGGCTTA	14640
AGCATTTAGT	CAGTAGACGC	TTTGTCCTAT	AGGATCAAAG	CTAGAGCCCT	GACTAGTATT	14700
TTTAGATAAA	AAGATGGTTT	ATCTAAAAAT	ACGTCGCAGT	CTTTCTCAAA	AAAAGAAAAG	14760
GAAAAATAAA	ATGGCAAATA	AAAATGCGTA	CGCTCAATCT	GGTGTGGATG	TTGAAGCGGG	14820
TTATGAAGTT	GTTGAACGGA	TTAAAAAGCA	CGTGGCCCGT	ACGGAGCGTG	CAGGTGTCAT	14880
GGGAGCTCTT	GGTGGCTTTG	GTGGTATGTT	TGACCTTTCC	AAGACTGGGG	TTAAAGAACC	14940
CGTCTTGATT	TCAGGGACTG	ACGGTGTCGG	AACCAAGCTC	ATGTTGGCTA	TCAAGTACGA	15000
CAAGCACGAT	ACCATCGGGC	AGGACTGTGT	GGCCATGTGT	GTCAACGACA	TCATTGCTGC	15060
AGGTGCGGAA	CCCCTCTATT	TTCTCGACTA	CGTAGCGACA	GGGAAGAATG	AACCAGCTAA	15120
GCTAGAACAA	GTGGTTGCTG	GTGTGGCAGA	AGGTTGTGTG	CAGGCTGGTG	CTGCCCTCAT	15180
CGGTGGGGAA	ACGGCTGAAA	TGCCGGGCAT	GTACGGCGAA	GACGACTATG	ACTTGGCTGG	15240
TTTTGCGGTC	GGTGTGGCTG	AAAAATCTCA	AATCATTGAC	GGTTCAAAGG	TGGTAGAGGG	15300
AGATGTTCTT	CTCGGACTTG	CTTCAAGTGG	GATTCACTCA	AATGGTTACT	CTTTGGTTCG	15360
TCGTGTCTTT	GCGGATTACA	CAGGTGAGGA	AGTCCTACCA	GAATTGGAAG	GCAAGAAACT	15420
TAAGGAAGTT	CTACTTGAGC	CGACTCGTAT	CTATGTCAAG	GCTGTCTTGC	CGCTCATCAA	15480
AGAAGAGTTG	GTCAACGGCA	TTGCCCACAT	CACAGGTGGT	GGCTTTATCG	AAAATGTCCC	15540
TCGTATGTTT	GCAGATGACC	TAGCTGCTGA	AATTGATGAA	AGTAAAGTTC	CAGTGCTTCC	15600
AATTTTCAAA	ACCCTTGAAA	AATACGGTCA	GATTAAACAC	GAAGAAATGT	TTGAAATCTT	15660
CAATATGGGT	GTGGGACTTA	TGTTGGCGGT	CAGCCCTGAA	AATGTAGAGC	GTGTAAAAGA	15720
ATTGTTGGAT	GAAGCAGTCT	ATGAAATTGG	TCGCATCGTC	AAGAAAGAAA	ACGAAAGTGT	15780
CATTATCAAA	TGAAAAAAAT	AGCGGTTTTT	GCCTCTGGTA	ATGGCTCAAA	TTTTCAGGTG	15840
ATTGCCGAAG	AATTTCCAGT	GGAGTTTGTC	TTTTCAGACC	ATCGTGATGC	CTATGTGCTT	15900
GAGCGTGCAA	AGCAGCTCGG	CGTTCTGTCC	TATGCTTTTG	AACTCAAGGA	GTTTGAGAGC	15960

670 AAGGCAGACT ACGAAGCAGC CCTTGTCGAA CTCTTGGAAG AACACCAGAT TGACTTGGTT 16020 TGCCTAGCAG GCTACATGAA AATCGTTGGA CCAACCTTAT TGTCGGCTTA TGAAGGTCGG 16080 ATTGTCAACA TTCATCCAGC CTACTTGCCA GAATTTCCAG GAGCTCATGG GATTGAGGAT 16140 GCTTGGAATG CTGGCGTGGG TCAGTCTGGT GTGACCATTC ACTGGGTGGA TTCGGGTGTG 16200 GATACAGGCC AGGTCATCAA ACAGGTTCGT GTGCCACGAC TAGCTGATGA TACCATTGAC 16260 AGATTTGAAG CTCGCATCCA TGAAGCAGAG TACAGGCTGT ATCCGGAAGT AGTGAAGGCT 16320 CTATTTACAG ATTGACTTTT TGATGATTCA TATGATATCT TTGATTTTAA ATTGGAGTCA 16380 GTGTTTGTTG AAGACGGCTT CAAACGGAGG TATTTGTAAT GTTAGAATCT AAAAAAACAA 16440 CTCGATATGT ATTTTATGTC TATCTGATGT TATTAACTTG GGGAATCTTA TTTAAGTTTG 16500 AAACAAATCC TGAATTTATA GCATTTTTCT TAGCTCCAAG GTATATCAAT TGGATTCCAT 16560 TTTCAGAACC ACTAATAGTC GATGGAAAAA TTGTTTTTGC TGAAATGTTA TTTAATCTGA 16620 TTTTCTTTAT TCCATTAGGT GTTTGTTTCC CTTTGATAAA AACTAATTTA TCTAGTTTAA 16680 GAATAGTCGG GACAGGTTTC TTGATTAGTT TATTGTTTGA GTGCTTACAG TATATTTTAG 16740 CAATAGGTAT AACAGATATA ACGGATTTGA CTTTAAATAC GCTAGGTGTC TGTGTAGGCT 16800 TACTGATTTA TCAAATTTTT ATAAGAGTGT TCAAATCACA GACTAGAAAA TGGATCAATA 16860 TCTTAGGTAT GCTTAGCCTT GGTTTTGCTT ATCTTGTTTT ACTGTTACTG CATTTACTTA 16920 GTGTTTAACT AATGATTAAA AAGGAGAATA TAATGACTAA ACGCGTCTTA ATCAGCGTCT 16980 CAGACAAAGC GGGCATTGTT GAATTTGCCC AAGAACTCAA AAAACTTGGT TGGGAGATTA 17040 TCTCAACAGG TGGAACTAAG GTTGCCCTTG ATAATGCTGG GGTGGATACC ATTGCTATCG 17100 ATGATGTGAC TGGTTTCCCA GAAATGATGG ACGGTCGTGT GAAGACCCTC CACCCAAATA 17160 TCCACGGAGG GCTTCTCGCT CGTCGTGACT TGGATAGCCA CTTGGAAGCG GCTAAGGACA 17220 ACAAGATTGA GCTCATTGAC CTTGTGGTGG TCAACCTTTA CCCATTTAAG GAAACTATCC 17280 TTAAACCAGA TGTGACTTAT GCTGATGCAG TTGAAAATAT CGATATTGGT GGGCCATCTA 17340 TGCTTCGTTC AGCAGCGAAA AATCATGCCA GTGTTACAGT TGTGGTAGAT CCTGCTGACT 17400 ACGCTGTGGT TTTGGATGAA TTGGCAGCAA ACGGCGAAAC CTCTTATGAA ACTCGCCAAC 17460 GTTTAGCAGC CAAAGTATTT CGTCACACAG CGGCTTATGA CGCCTTGATT GCAGAATACT 17520 TCACAGCTCA AGTGGGTGAA AGCAAGCCTG AAAAACTCAC TTTGACTTAT GACCTCAAGC 17580 AACCAATGCG TTACGGTGAG AATCCTCAAC AAGACGCGGA CTTTTACCAG AAAGCTTTGC 17640 CTACAGACTA CTCCATTGCT TCAGCCAAAC AGCTCAACGG GAAAGAATTG TCATTTAATA 17700 ATATCCGTGA TGCAGATGCT GCTATCCGTA TCATCCGTGA CTTCAAAGAT AGTCCAACCG 17760

TTGTGGCTCT	CAAACACATG	AATCCATGTG	GAATTGGTCA	AGCTGATGAC	ATCGAGACTG	17820
CTTGGGACTA	CGCTTATGAG	TCTGACCCAG	TGTCTATCTT	TGGTGGGATT	GTCGTCCTCA	17880
ACCGTGAGGT	GGATGCTGCG	ACAGCTGAGA	AGATGCACGG	CGTTTTCCTC	GAAATCATCA	17940
TTGCACCAAG	CTATACGGAT	GAAGCGCTAG	CCATTTTGAT	CAATAAAAAG	AAAAACTTGC	18000
GTATCCTTGC	CTTGCCATTT	AATGCTCAAG	AGGCTAGCGA	AGTGGAAGCA	GAATACACAG	18060
GTGTAGTCGG	TGGACTTCTC	GTGCAAAATC	AAGACGTGGT	CAAGGAAAGC	CCAGCTGACT	18120
GGCAAGTGGT	GACTAAACGT	CAGCCAACTG	AGACAGAAGC	GACTGCTCTT	GAGTTCGCTT	18180
GGAAGGCTAT	CAAGTACGTC	AAATCAAATG	GTATTATCGT	GACCAACGAC	CACATGACAC	18240
TTGGTGTTGG	TCCAGGTCAA	ACCAACCGTG	TGGCTTCTGT	TCGCCTTGCC	ATTGACCAAG	18300
CCAAAGATCG	TCTGGACGGG	GCGGTCCTTG	CTTCAGATGC	CTTCTTCCCA	TTTGCGGATA	18360
ACGTGGAAGA	AATCGCCAAA	GCAGGAATTA	AGGCCATCAT	CCAGCCCGGT	GGCTCTGTCC	18420
GTGACCAAGA	ATCCATCGAA	GCAGCGGATA	AATACGGCTT	GACTATGGTC	TTTACAGGTG	18480
TGAGACATTT	TAGACATTAA	GAAGATAAAA	GGGAAGAAAA	CAGTTTCTTT	CCTTTTTTGG	18540
CTTAAAATAC	TAACTGAAAC	AAGATTAAAA	CGAACTTTTT	TGATATAATG	TTGGTAAATA	18600
ATTCGCAAAA	GAGGTTGAGG	AATGAAACTG	CTTGTTGTCG	GTTCTGGTGG	TCGTGAGCAT	18660
GCGATTGCTA	AAAAGTTACT	TGAATCAAAA	GACGTGGAAA	AAGTCTTTGT	AGCTCCTGGG	18720
AATGATGGGA	TGACTCTGGA	TGGTTTGGAA	TTGGTAAATA	TCTCTATTTC	CGAACATTAT	18780
AAATTGATTG	ACTTCGCAAA	GACCAATGAT	GTTGCTTGGA	CCTTTATCGG	TCCAGATGAT	18840
GCCCTTGCTG	CTGGTATCGT	GGATGATTTT	AACCAAGCTG	GACTTAAGGC	CTTTGGTCCG	18900
ACTAGGGCTG	CAGCGGAGCT	GGAGTGGTCC	AAGGATTTCG	CCAAGGAAAT	CATGGTCAAA	18960
TACGGCGTTC	CGACAGCAAC	ATATGGCACA	TTTTCAGATT	TCGAGGAAGC	CAAAGCCTAT	19020
ATCGAAAAGC	ATGGTGCGCC	TATCGTAGTC	AAGGCGGATG	GCTTGGCACT	TGGGAAGGGT	19080
GTCGTCGTTG	CTGAGACGGT	TGAGCAAGCG	GTCGAAGCCG	CTCATGAGAT	GCTTTTGGAC	19140
AATAAATTTG	GTGACTCAGG	TGCGCGCGTG	GTTATTGAGG	AATTCCTTGA	AGGAGAGGAA	19200
TTTTCACTCT	TTGCCTTTGT	CAATGGTGAT	AAGTTCTACA	TCATGCCAAC	GGCTCAGGAC	19260
CACAAACGTG	CCTATGATGG	CGACAAAGGG	CCTAACACGG	GTGGTATGGG	TGCCTATGCG	19320
CCAGTCCCAC	ACTTACCACA	GAGTGTAGTT	GATACAGCGG	TTGACACCAT	TGTCAAGCCA	19380
GTTCTAGAAG	GGGTGATTAA	AGAAGGTCGC	CCTTATCTGG	GAGTTCTTTA	CGCAGGGCTT	19440
ATCCTGACAG	CTGATGGACC	GAAAGTCATT	GAGTTCAACG	CTCGGTTCGG	AGATCCAGAA	19500

672 ACTCAGATTA TCTTGCCTCG CTTGACCTCT GACTTTGCTC AAAATATCAC AGATATCCTG 19560 GATAGCAAGG AGCCAAATAT CATGTGGACG GACAAGGGTG TGACTCTGGG TGTGGTTGTC 19620 GCATCCAAGG GCTACCCGCT AGACTATGAA AGGGGCGTTG AGTTGCCAGC CAAGACAGAA 19680 GGCGATGTCA TCACCTACTA TGCAGGGGCT AAGTTTGCGG AAAATAGCAG AGCACTGCTC 19740 TCAAACGGCG GACGAGTTTA TATGCTCGTT ACCACAGCAG ATACCGTCAA AGAAGCCCAA 19800 GCCAGCATAT ACCAAGAACT ATACCAACAA AAAATAGAAG GACTCTTCTA CCGAACAGAT 19860 ATCGGAAGCA AGGCAATTAA GTAAAGATAT AAGAATAACG CGCCGTAGTC GCCAAACACG 19920 ATAATGGTCG TCGTGGTGAA AAGACCAGAA CAGTGAATGT TCTGGTCAGG GGGAAACTTG 19980 GAGACCTTAG GCTCAAAGTT TAGGAATGAA ACCGAAGGTT TGCTTCCGCC TCCATCACCT 20040 AAGACCATTA TCAAAAAGAA AAATAAAAAT TCACAAAATA CGTTAATGAT CGTATGGTTT 20100 GCGAGCGTTA GCGAGCTAAT ATAGAACAAT CACCGCCGTT GTGAAAGAAC GATTGGATGA 20160 TAATCCAATC GTTCAGGGAA ATTGGAAGAC CTTGGGTTTC CAATTTAGGC ATGAGACACC 20220 TTTGGTGGCT GCTGCCGTCC CTCACAAGCT AAGGTGATTG TTGAAAAAGA GGAAAAAGGA 20280 GAAGAAATGA AACCAGTAAT TTCCATCATC ATGGGCTCAA AATCCGACTG GGCAACCATG 20340 CAAAAAACAG CAGAAGTCCT AGACCGCTTC GGTGTAGCCT ACGAAAAGAA AGTTGTTTCC 20400 GCACACCGTA CACCAGACCT CATGTTCAAA CATGCAGAAG AAGCCCGTAG TCGTGGCATC 20460 AAGATCATCA TCGCAGGTGC TGGTGGCGCA GCGCATTTGC CAGGCATGGT AGCTGCCAAA 20520 ACAACCCTTC CAGTCATTGG TGTGCCAGTC AAGTCTCGTG CTCTTAGTGG AGTGGATTCA 20580 CTCTATTCTA TCGTTCAGAT GCCGGGTGGG GTGCCTGTTG CGACCATGGC TATCGGTGAA 20640 GCTGGAGCGA CTAACGCAGC TCTCTTTGCC CTCCGTCTCC TCTCTGTAGA AGATAAGTCC 20700 ATTGCGGATG CACTTGCCAA CTTTGCTGAA GAACAAGGAA AAATCGCAGA GGAGTCGTCA 20760 AATGAGCTCA TCTAAAACAA TCGGAATTAT CGGTGGCGGT CAACTGGGTC AGATGATGGC 20820 CATTTCTGCT ATCTACATGG GCCACAAGGT TATCGCGCTG GATCCTGCGG CGGATTGCCC 20880 GGTCTCTCGT GTGGCGGAAA TCATTGTGGC ACCTTATAAC GATGTAGACG CCCTCCGTCA 20940 GTTGGCAGAC CGTTGCGATG TCCTCACTTA TGAGTTTGAA AATGTCGACG CTGACGGTTT 21000 GGATGCCGTT ATCAAGGATG GACAACTCCC TCAAGGAACA GATCTGCTCC GCATTTCGCA 21060 AAATCGTATT TTTGAAAAGG ACTTTTTGTC AAACAAGGCT CAAGTCACTG TGGCACCCTA 21120 CAAGGTCGTG ACTTCTAGCC TAGACTTGGC AGATATCGAC TTGTCGAAAA ACTATGTCCT 21180 CAAGACTGCG ACTGGTGGCT ACGATGGTCA TGGACAAAAG GTTATTCGTT CAGAAGCAGA 21240 CTTGGAAGCA GCCTATGCGC TAGCAGACTC AGCAGACTGC GTCTTGGAAG AATTTGTCAA 21300

CTTTGACCTT	GAGATTTCTG	TCATCGTGTC	AGGAAATGGC	AAGGAGGTGA	CGTTTTTCCC	21360
AGTTCAGGAA	AATATCCACC	GCAACAATAT	CCTGTCTAAG	ACCATCGTAC	CAGCCCGCAT	21420
TTCTGAAAGT	CTAGTAGACA	AGGCTAAAGC	TATGGCAGTG	CGAATCGCAG	AACAACTCAA	21480
CTTGTCTGGA	ACTCTCTGTG	TGGAAATGTT	TGCGACAGCT	GATGACATCA	TTGTCAATGA	21540
AATCGCCCCA	CGACCACATA	ACTCTGGGCA	CTATTCTATT	GAAGCCTGTG	ATTTCTCTCA	21600
GTTTGACACC	CATATTCTGG	GTGTTCTCGG	AGCACCATTA	CCAGTCATCA	AACTCCATGC	21660
GCCAGCCGTT	ATGCTTAATG	TCCTCGGTCA	GCATGTCGAG	GCTGCTGAAA	AATATGTCAC	21720
AGAAAATCCA	AGCGCCCACC	TCCACATGTA	TGGTAAAATA	GAAGCAAAGC	ATAATCGTAA	21780
GATGGGACAT	GTGACTTTGT	TTAGTGATGT	GCCGGATAGT	GTGGAAGAGT	TTGGGGAAGG	21840
GATTGATTTT	TAGGACAAGT	CTATGATACA	AATTATCGTT	AATACATTTA	TTGAAAAGTA	21900
TAAGACTGGA	GCAGTTGTTG	AAGTGTTGTA	TGCCAGTGCT	GACCAAGATA	AGGTACAAGC	21960
TAAATATGAA	GAACTAGCTG	CACAATACCC	CGAAAATTAT	TTAGCTATCT	ATAATGTACC	22020
GCTGGATACG	GATTTGAATA	CACTAGATCA	TTACCCGTCT	GTGTTTATTG	GAAAAGAGGA	22080
GTTTGAGTAG	AAATCTTGGT	TTACCTAGAT	AGCTTATTCC	CAACAGCTTA	AGAAGAAAGG	22140
AAAAATTAAC	ACATGATCAA	CCGTTACTCT	CGCCCTGAGA	TGGCGAATAT	TTGGAGTGAA	22200
GAAAATAAAT	ACCGTGCTTG	GCTTGAGGTG	GAAATCCTCT	CTGACGAGGC	ATGGGCTGAG	22260
TTGGGGGAAA	TCCCTAAGGA	AGATGTGGCT	TTGATTCGCA	AGAAGGCGGA	CTTTGACATC	22320
GACCGTATTT	TGGAAATTGA	GCAGGAGACG	CGCCACGATG	TGGTGGCTTT	CACGCGTGCG	22380
GTTTCTGAGA	CTCTTGGTGA	AGAGCGCAAG	TGGGTTCACT	ATGGGTTAAC	TTCTACTGAC	22440
GTGGTGGATA	CTGCTTATGG	TTACCTCTAC	AAGCAGGCCA	ACGACATCAT	CCGTCGTGAC	22500
CTTGAAAACT	TCACTAATAT	CATCGCTGAC	AAGGCCAAGG	AGCACAAGTT	CACCATCATG	22560
ATGGGGCGTA	CTCATGGTGT	GCACGCTGAG	CCGACAACCT	TTGGTCTTAA	ATTAGCAACT	22620
TGGTACAGCG	AAATGAAACG	CAATATCGAG	CGCTTCGAGC	ATGCGGCTGC	TGGTGTAGAA	22680
GCTGGTAAGA	TTTCTGGTGC	GGTTGGGAAC	TTTGCCAATA	TCCCACCATT	TGTAGAGGAG	22740
TATGTCTGCG	ATAAACTTGG	CATCCGTGCC	CAAGAAATCT	CTACACAAGT	CCTTCCTCGT	22800
GACCTTCACG	CTGAGTACTT	TGCGGTTCTT	GCCAGCATTG	CGACTTCAAT	CGAACGTATG	22860
GCGACTGAGA	TTCGTGGTCT	ACAAAAATCT	GAGCAACGCG	AAGTAGAAGA	GTTCTTTGCT	22920
AAAGGGCAAA	AAGGGTCTTC	AGCAATGCCT	CACAAACGCA	ACCCAATCGG	TTCTGAAAAT	22980
ATGACTGGTC	TGGCGCGTGT	CATTCGTGGT	CACATGATTA	CGGCTTATGA	AAACGTCGCT	23040

674 CTCTGGCATG AACGCGATAT TTCTCACTCA TCAGCTGAGC GTATCATCAC ACCAGATACG 23100 ACCATTTGA TTGACTACAT GCTCAACCGT TTTGGAAATA TCGTCAAGAA CTTGACAGTC 23160 TTCCCAGAAA ATATGATCCG AAACATGAAC TCGACTTTTG GTCTTATCTT TAGCCAACGG 23220 GCTATGTTGA CATTGATTGA AAAAGGCATG ACCCGTGAGC AAGCCTATGA CTTGGTGCAA 23280 CAAAAACAGC CTACTCTTGG GACAACCAAG TAGACTTTAA ACCACTTCTT GAGGCAGATT 23340 CAGAAGTAAC ATCACGTCTC ACACAAGAAG AAATCGATGA AATCTTCAAC CCAGTTTATT 23400 ACACCAAACG AGTGGATGAT ATCTTTGAAC GTCTTGGACT AGGTGATTAA TTAAAAAATA 23460 23520 TTAGTGAGTC CATAGGCTGC TAGTGTGGAC ATGAGTCCTG CGACTACTAG TCCTGCAGAA 23580 TCGTGAGTTC CTGTTTCAGG AAGTTTTTTC TCTGTTACCA CAGGAGCTGG ATCTTGAGGA 23640 AGAACTTTGC TTTCCTCAGC AGGAGCAGTT GATGGAGCTG GTTGGCTTGG GATTTCTAGT 23700 TTTGGTTTTT CTTCAGCAAT AGCGGCTTGT CCGTTTTCAT CGCCTACATG TGTTACCATA 23760 GTTCCGACTT CGACTATTTG AGTAACGGCT TCCTGTGCTA CGACACTATT TACAAGTGTT 23820 TTCACTTCCT TACCATCGGC AGAAGTGCTC ACAGAGTAGA AGTTGCTACG ATGTCCATTG 23880 ACGCCCTTAG TAATGACTTG TGTTTTTCCT TTGAGTAAGA GTGGATTTTC ACAAGTCACT 23940 GTGGTAAATG GAATTTCTTC TTCTTGGATA TCCAGTCTAG GTTTTACCTC AGTAGTTGGT 24000 GCAAGACCAC TTTCATCACC CTTGTGAGTT ACAGGAGCGC CAACTTCAAC CACTTGGTTT 24060 ATAACTTCTT TGGTTACCTG GCTATCAAGG ACTGTTTCTG TTGTTTTTCC ATTTTCAGTG 24120 AGTACAGAGA TGTAATGAGT TCGTTCACCT TTGACTCCTG CTGTGATAAT ATTTTCCTGA 24180 CCGGCTGGGA GGTTAGGATT TTCTTTCTTG ATAACTTCAA ATGGAATTTC TTCAGTTCTT 24240 GTGATGAGTT CTGGTCTGGT TTCAACATTG GCAGCCACTT CATTTTCATC TAGGCTTCCT 24300 GAATGAGTTA CAGCTGGTTT GAGGCCTTGA AGAGCGGCTT TTAGGTTGGC TACAAGCGTG 24360 TCAAGCTCAG CTTGTTTATT ACGGTTGAGG TTGTAATTTA GAGCTGTTTT AGCTGCGTCA 24420 AGGGCCTCAA GACTTTCTTT ACTATATCCT TCTAAGTTTG TAGGAATTTT AGCTAATTCT 24480 TCGCGGAGAG CATTATAATT AGCACGAAAG TAGTCTTTGT TGTGGTCTGC AAAGGCAGTC 24540 ATGAGTTCAA AGATTTCCTC TTCCTTGTAT TCAGCGCTTG GTCTATCTGC CCAGATTGAA 24600 AGCATACTTC CGACTGTTGG AAGATCTACT TCAGGATATT TGGTAGAAGC TAGTTGATTG 24660 AATGGTGTTT TTCCAGTATT CTCAATAGCT TTCTTGAGGA AACCACCACC ATCTTCTGGT 24720 TTTTGACCAA GAATGTAGTA CCAGTCACCG TTGGTATTCA AGAATTTATA GCCTTTGCTT 24780 GCTAGGTATT GAGGTGATGC GAGGTTATAT CCCCACCAGC CTTTAGACCA GTAAGAAATC 24840

AAGACATCTT	TGTCAAACTG	AACATCGTCC	TTGTCTTCAT	AGTAGAAGCC	ATCGTTGAAG	24900
GCCATTGGTT	GAAGCCCTCT	TTCTTTGGCC	ATAGCTGCGA	GGGTGTTGGC	ATATTCGGCA	24960
AATTTGCCAT	AGAGTTGATA	CCACTTGAGG	TAGTACCAGC	CTTGGGCACT	AGTCGCATCG	25020
TTGGCGTATT	CGTCAGTACC	AAAGTTGAAA	ATCTTTGTTT	TACCTGCAAA	GAAGTCCATG	25080
TATTTACCGA	TGAGGGCTTT	TACAAAGTTC	ATCGCTTCTT	CGTTTTTCAA	GTCCATAGTT	25140
GTTTTTGAAA	CTTTATCAAA	GTGGGCTTGA	GGATTTTTAA	TACCTAATTT	TTCCATGGCA	25200
ACCAGCATAG	CATCCATGTG	ACCTGGACTG	TTAATAGCTG	GGATGAGACC	GATGTCCTTA	25260
GATTTAGCGT	ATTCAATTAG	CTCTGTTACT	TCTGCCTGTG	TTAGTGCAGT	ACCGTTTGGA	25320
TCGTCGTAGT	AAGCTTTAGT	TCCTTCGATA	ATAGCTTTTT	TAACGTCATC	ACTAGCATAG	25380
GTTTTTCCGT	TGGCAGTAAT	GGTCATATCA	TCGAGTAGAA	AGCGAAGTCC	GTCATTTCCT	25440
AGAAGGAGAT	GGACATCAGA	ATATCCGAGC	TCACTGGCCT	TGTCTACGAT	GCGTTTGAGC	25500
TGGTTCAGAG	TAAAGTATTT	GCGTCCAGCA	TCGATTGAGA	TTACCTTGTT	TTTGGCAAGT	25560
TTTTCAACCT	CACGTTTAGC	TTCTTCTTCT	TTTTGAGCTT	CAGGCGTGAG	GGTCAAGTTG	25620
TTGACAGTTT	CTTGAAGTTT	AGCAATGGCT	TGATCAATCG	TATCTTGTTG	GGCACGGCTA	25680
AGGTTGCTAT	CGAGAGAGCG	AATAGCTTTT	TCAGCTTCTT	TTACGGCCGT	GACGCTTTCT	25740
GCAGTATAAC	GGTTCAGGTC	TTTTGGTACC	TCGTTAAGTG	CTTGCTCTGC	AGATTCATAA	25800
TCAGCTGCGA	AGTATTCAGC	GTTGGCATTT	GCAAAATGAC	GCATGAGTTT	GAAGAGGCGT	25860
GATGGTGAAT	AACGTGCAGA	TGGAGTGTCA	GCCCAAGCAG	CTACCATACC	ACCGATGATT	25920
GGGATATCAG	CTCCTTCTGT	TTTTGGTACA	GAAGTGATTG	GTGTGTTTTT	AATACCATTG	25980
AGCCCCTGAT	CGAGATTGTA	CCAGCCTTGG	CCATCAGCGT	TTCGTCCAAG	AACGTAGTAC	26040
CAAGCATCAT	TGGTATTAAG	GATTTGGTGA	CCTTTTTCAG	CTAGTAGTTT	AGAAGAAGCG	26100
ACATCGTAGC	CTCCCCAACC	ACCAGTCCAC	ATAGAAACGA	TGATGTCTTT	GTCAAAACTA	26160
CCAAAGCTTG	TGTCGCTATT	GTAGTAGATA	CCGTCGTTAA	AAGCCATTGG	TTTGAGACCG	26220
TGCGATTTTA	CAATACGAGC	GAGGTCATTG	GCGTAGGCAA	TAAATTTTTC	ATAGCCTTTT	26280
ACAGGGTAGC	CTTCGTTTGG	ATAGTATTTA	TCAGCTTGAA	GCACACTCCA	ACCTTTAGCA	26340
TCTGTCGCAT	CATTGGCATA	TTCATCAAGT	CCGATGTTGA	AGATTTCAGT	CTTTTTCGCG	26400
AAATAAGCAG	CATACTTGTC	GATAAGGGCT	TTTGTAAAAG	CGACAGCTTG	TTCGTTGTCA	26460
AGATCGACAG	TACGGGCTGA	TTTCTTCCCA	AAATAGCTAA	AGTTAGGGTT	TTGGATTCCC	26520
AATTCTTTCA	TGGCATTGAG	AATCGCATCC	ATGTGTCCAG	GACTATTTAC	TGTCGGAATG	26580

676 AGACCGATAC CTTTATCTTT GGCATAGTTA ATCAGATCTG TCATTTGACT TTCTGTTAAG 26640 TGATTGCCGT TTGGATCGTT GTAATAATCA TTTGTACCTT TTTCAATGGC GCGTTTGACA 26700 TCGTCACTGG CATAGGTCTT GCCGTTAGCT GTGATGCTCA TATCGTCCAA CATGAAACGG 26760 AGTCCATCAT TTCCGACTAA TAGGTGTAAA TCAGTGTAGC CATAATGTTT CGCTTTATCG 26820 ATGATTTCCT TGAGCTGTTC TGGTGAGAAA TATTTACGTC CAGCATCAAT AGAAACAATT 26880 TTCTTTTTCG CTAGTTTTC ATTTACAGTT GCAGCACGTT CCTTTCCTGC CTCTGTTGCC 26940 GGTTTGTCAG CCTCTGCTTT CGCTTCATCT TTTTTAGCTG GTTTATCCTT GTCAGTCTTG 27000 TCTGTATTTG ACTCTTTAGA ATCAACCTCT TTCGCTTCTT CCTTTTTAGG GCTAGCTTCT 27060 TCTGCCTTTT TATTAGCAGT TTCTTTTCA GCAGAAGTTG GAGTTACCAC TTCTGCTTTA 27120 TCACTAGGAG TTGAACTAAC TTCCTCTTGT GGTTTTTCTT CTGTTTTTTGG AAGACTAGCT 27180 ACCTTATCAG TAGCTGGAGT TTCTGTTTCT ACAGTTTTTG GAGCTTCTGG TTGAAGCACT 27240 GCTTTAGGTG TTTCCTCAGT CCGATTTTCG GATGATTGAG GGGAATCAGA AACCGTATGG 27300 ATGGTCGGTT GGTTTTCTGT AGTAGTAGGA GTAACTCCAT CGGCTGCAAC AGTCTGTGCT 27360 TGGAAGGCAA ATCCAATTAG AACAGAAGCT GCTCCTACAG CGTATTTACG AATAGAAAAA 27420 CGCTGTTGTT TTTCATGTTT CATTGCAAAA CCTCCTGATT GCATTGTTAT ATTGATAGCG 27480 ATTATATAAA TCAACGCCTT TATTTTATTT CTTATATTAA TTTCTTATAT TAACGAGAGT 27540 CAAGAGGAGA TGACAAAAAA CTATAATAAG TATAAAAAAA TATAAAATTT AAACTTAAGA 27600 TTTCAGATTG GTCGGAAAAA ATACGTATAT ATATCTAGTA TAATTTTTGG TTCTATTTCT 27660 ATAAAATATT CCACAAATTA TAGAATTTTC CAAAAATAGG TAAGCGCTAC CTTTTTGGTG 27720 TAGTATAATA AGCATAGAAA AAGCCCAAGC GATTAGCTCA GGTTTTCTTC TTAGTGATCA 27780 CGGTCACATG AGATAAATTT AATCTTGTAG TAATCAGATC GTTTGTAAGT TTCACTGTAT 27840 TCTAAAACTT GGCCAGTTGA TTCGAGTTTG GTGATTTTAG TTTGTAGGAC AGTAGGGAAT 27900 TGTTCATCGA CTCCGAGGAC TGAAGCTGCA TGTTCTGGAG TTGGAAAGAC TATTTCGTTG 27960 ATTTCTTCAA AGTGTTCATC ATTCATGTGA ATGTGGTAGT CTAACTTGAA ACGATTATAG 28020 ATAGAACTAT AGTATTCAAG GTTTGGATAA TTTGCGTTGA TATATTGTTC TGGGATGTAG 28080 GATGTATGGT AGATATAAAC GACACCGTTT GATTCGCGGA TACGTTCAAT CTTGTAGTAG 28140 AATTGATCGC CGCGTAGACC CAATTTTTCC AAGTAAACAA GCTTGTTTCC GCGTTCAATT 28200 GAAAGAACAG TTACCTTATC ATCTTTAGCA TTGAAGAGTT CAATATCTGA AAACTCTACA 28260 AGCTTGTGTT TGCGTGCACG TGAAACGAAG GTTCCTTTTC CTTGTTGGCG GACAATATAG 28320 CCATCTTTGG CAAGGTCGTT TAAGGCGCGA ACAACTGTGA TAGAGCTGAC ATCGTACATT 28380

677

GAAATGAGTT CTGCTTCAGT GTAAAATTTA TCTCCACTGC TAAACTGCCC AGAGATGATT 28440 TTATTTTTA ATTCGTCTTT TATGTATTGA TGG 28473

(2) INFORMATION FOR SEQ ID NO: 84:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6749 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 84:

CCTGATGGGT	GGTATGCGAG	GATACAGTTC	TGAAAATCGC	CGTTACTTAA	TTAATGGACG	60
CGAAGTCACA	CCTGAGGAAT	TTGCTCACTA	TCGTGCGACT	GGTCAATTAC	CAGGAAATGC	120
AGAAACTGAT	GTGCAAATGC	CACAACAGGC	ATCAGGTATG	AAACAAGGCG	GTGTCCTTGC	180
AAAACTAGGT	CGAAACTTAA	CAGCAGAAGC	GCGTGAGGGC	AAGTTGGATC	CTGTTATCGG	240
ACGAAACAAG	GAAATTCAAG	AAACATCTGA	AATCCTCTCA	CGCCGCACCA	AGAACAATCC	300
TGTTTTGGTC	GGAGATGCAG	GTGTTGGTAA	GACAGCAGTT	GTCGAAGGTC	TAGCGCAAGC	360
CATTGTGAAC	GGAGATGTTC	CTGCTGCTAT	CAAGAACAAG	GAAATTATTT	CTATTGATAT	420
CTCAGGTCTT	GAGGCTGGTA	CTCAATACCG	TGGTAGCTTT	GAAGAAAATG	TCCAAAACTT	480
AGTCAATGAA	GTGAAAGAAG	CAGGGAATAT	TATCCTCTTC	TTTGATGAAA	TTCACCAAAT	540
TCTTGGTGCT	GGTAGCACTG	GTGGAGACAG	TGGTTCTAAA	GGACTTGCGG	ATATTCTCAA	600
GCCAGCTCTC	TCTCGTGGAG	AATTGACAGT	GATTGGGGCA	ACAACTCAAG	ACGAATACCG	660
TAACACCATC	TTGAAGAATG	CTGCTCTTGC	TCGTCGTTTC	AACGAAGTGA	AGGTCAATGC	720
TCCTTCGGCA	GAGAATACTT	TTAAAATTCT	TCAAGGAATT	CGTGACCTCT	ATCAACAACA	780
CCACAATGTC	ATCTTGCCAG	ACGAAGTCTT	GAAAGCAGCG	GTGGATTATT	CTGTTCAATA	840
CATTCCTCAA	CGTAGCTTGC	CAGATAAGGC	TATTGACCTT	GTCGATGTAA	CGGCTGCTCA	900
CTTGGCGGCT	CAACATCCAG	TAACAGATGT	GCATGCTGTT	GAACGAGAAA	TCGAAACGGA	960
AAAAGACAAG	CAAGAAAAAG	CAGTTGAAGC	AGAAGATTTT	GAAGCAGCTC	TAAACTATAA	1020
AACACGCATT	GCAGAATTGG	AAAGGAAAAT	CGAAAACCAC	ACAGAAGATA	TGAAAGTGAC	1080
TGCAAGTGTC	AACGATGTGG	CTGAATCTGT	GGAACGAATG	ACAGGTATCC	CAGTATCGCA	1140
AATGGAAGCT	TCAGATATCG	AACGTTTGAA	AGATATGGCT	CATCGCTTGC	AAGACAAGGT	1200
GATTGGTCAA	GATAAGGCCG	TAGAAGTTGT	AGCTCGTGCT	ATCCGTCGTA	ACCGTGCTGG	1260

TTTTGATGAA	GGAAATCGCC	CAATCGGCAA	678 CTTCCTCTTT	GTAGGGTCTA	CTGGGGTTGG	1320
TAAGACGGAG	CTTGCTAAGC	AATTGGCACT	CGATATGTTT	GGAACCCAGG	ATGCGATTAT	1380
CCGTTTAGAT	ATGTCTGAAT	ACAGTGACCG	CACAGCTGTT	TCTAAGCTAA	TTGGTACAAC	1440
AGCAGGCTAT	GTGGGTTATG	ATGACAATAG	CAATACCTTA	ACAGAACGTG	TTCGTCGCAA	1500
TCCATACTCT	ATCATTCTCT	TGGATGAAAT	TGAAAAGGCT	GACCCTCAAG	TTATTACCCT	1560
TCTCCTCCAA	GTTCTAGATG	ATGGTCGTTT	GACAGATGGT	CAAGGAAATA	CAGTAAACTT	1620
CAAGAACACT	GTCATTATTG	CGACCTCAAA	TGCTGGATTT	GGCTATGAAG	CCAACTTGAC	1680
AGAAGATGCG	GATAAACCAG	AATTGATGGA	CCGTTTGAAA	CCCTTCTTCC	GTCCAGAATT	1740
CCTCAACCGC	TTTAATGCAG	TCATCGAGTT	CTCACACTTG	ACTAAGGAAG	ACCTTTCTAA	1800
GATTGTAGAT	TTGATGTTGG	CTGAAGTTAA	CCAAACCTTG	GCTAAGAAAG	ACATTGACTT	1860
GGTAGTCAGT	CAAGCGGCTA	AAGATTATAT	CACAGAAGAA	GGTTACGACG	AAGTCATGGG	1920
GGTTCGTCCT	CTCCGTCGCG	TGGTTGAACA	AGAAATTCGT	GATAAGGTGA	CAGACTTCCA	1980
CTTGGATCAT	TTAGATGCTA	AACATCTGGA	AGCAGATATG	GAAGATGGCG	TTTTGGTTAT	2040
TCGTGAGAAA	GTCTAAGACA	GAATTTTGAG	GATAAAAAAG	AAGGAGCCAG	CTGAAAAAAA	2100
CTGGTTCCTT	TTTAGGTACG	ACAGGCATGT	CGTATAGTAG	AAGTGTATTA	TTCTAGTTTC	2160
AATATACTAT	AGTAGCTCAG	AAGTCGGTAC	TTAAACGTGC	TATATCAAAA	CCAGTCCTGG	2220
AAAAACGTGG	ACTGGTTTCG	TGTTTGGATT	ATTACCTTGA	ACGACATGCG	TTAAAAGTTA	2280
GTTGAACCGC	CGTATGCCGA	ATGGTACGTA	CGGTGGTGTG	AGAGGGGCTA	GAGATTATCC	2340
CCTACTCGAT	TTTAAATCAC	ATGACGTTCA	AAGGCATCAT	CTGAAATCCC	TTGTTCCAAG	2400
ATGAGTTTTG	CCCATTCTTT	AGCAGAGAAG	AGGCTGTGGT	CCTTGTAGTT	TCCGCAAGAT	2460
TCGATGGTTG	TCCCTGGGAC	ATCTTCCCAA	GTAGTAGTTT	CAGCGATTTC	CTTGAGCGAA	2520
TCCTTGATAA	CAGCTGCGAT	TTTAGCACTG	GTGTGACGTC	CCCACATAAT	CATGTGGAAG	2580
CCTGTGCGGC	AACCAAATGG	TGAACAGTCA	ATCATGCCGT	CAATGCGGGT	ACGGATGAGT	2640
TTGGCTAAGA	GGTGCTCGAT	AGTGTGAAGG	CCGGCAGTAG	GGATAGAGTC	TTCGTTTGGT	2700
TGCACCAAGC	GAATATCATA	ATTGGAGATG	ATGTCTCCTT	TTGGTCCTGT	TTCTTCCCCA	2760
ATCAAGCGAA	CATAGGGTGC	TTTGACAATG	GTGTGGTCAA	GTTCAAAACT	TTCGACAATA	2820
ACTTCTTTTG	ACATGGTAAA	TCCTTTCAGT	TTTCTTCTCT	CATTATATCA	TAAAGGTTGC	2880
TCCTGAGACA	GAGAGAAAAC	CTCTCCGAGG	CTGGAGAGGT	TGAAATCTTT	ACTTACGATA	2940
TAAGCGGTCG	TATTGGTAGT	ATGGGTCAAA	GGTTACGTTG	ATACCCAGTT	TACGAAGGAC	3000
ATTCTTGTCT	TCATCAGTCA	AGATGATGGT	TGAGTGGGCT	TCGCTTCCTT	TGAGGTTGCC	3060

GAGTTCTTCC	ATAGCGCGGG	CAGCATCAGG	ATTTTCTGTA	GCTGTGATAG	CAAGTGCAAT	3120
CAGGATTTCA	TTTGAATGAA	GGCGTGGATT	GCGGCTACCG	AGATGATCGA	TTTTAAGACC	3180
TTGGATTGGC	TTAACAACTT	CAGGCTCGAT	TAGTTTTACT	TCTTTAGCGA	TGTCAGCTGA	3240
TTTTTTGATG	GCGTTGATCA	AGGCAGCGGC	TGTAGGACCA	AAGAGTTCTG	AGTTCTTACC	3300
AGTGATGATT	TCCCCATTTG	GCAATTCAAA	GGCTAGGGCT	GGTCCACCAG	TTTCTTCTGC	3360
TTTTTGGCGC	GCAACGACAG	CAACCTTACG	GTCTGCAGGT	GTGATACCGA	GGTCGTTCAT	3420
GAGCAACTCA	ATTTTCTTGA	CGGCAGCTTC	GCCAACTTTT	TCAGCTTTGA	AGTCAAGAAC	3480
TGTTTGATAG	TAACGGCGGA	TGATTTCTTG	TTTAGAAGCT	TCGACAGCGG	CCTCGTCATC	3540
TGTAATAGCG	AAACCAACCA	TGTTGACACC	CATATCTGTC	GGTGAAGCGT	ATGGTGATTT	3600
TCCGAGAATA	CGTTCCAACA	TGCGTTTGAG	CACTGGGAAG	ATTTCGATAT	CACGGTTGTA	3660
GTTGACAGTG	GTTTCTCCAT	AGGTTTGAAG	ATGGAAGGGG	TCAATCATGT	TGACATCATC	3720
AAGGTCAGCT	GTGGCAGCTT	CATAAGCCAA	GTTAACTGGA	TGATGAAGGG	GAAGATTCCA	3780
AACAGGGAAG	GTTTCAAATT	TAGCGTAGCC	AGATTTGATG	CCATTGATTT	GGTCGTGGTA	3840
CATATTGGAC	ATACACGTTG	CCAATTTTCC	AGAACCAGGT	CCAGGAGCGG	TTACGACAAT	3900
CAAGTTGCGA	CTGGTTTTGA	TGTAGTCGTT	TTTGCCCATG	CCTTCTGGGG	AAATGATGTG	3960
ATCCATATCC	GTCGGATATC	CTTTGATTGG	ATAATGAAGA	TAAGAATCAA	TTCCGTTTTT	4020
CTCAAGTTGA	TTGCGGAAGG	CATCTGCAGC	GGGTTGGCCA	GCGTATTGTG	TAATGACAAC	4080
GGAACCAACA	AAAATCCCTA	ATTCATTGAA	TTTATCAATC	AAACGAAGAA	CTTCTTGGTC	4140
ATAAGAAATG	CCTAAGTCGC	CACGTGCTTT	GGAATGTTCA	ATGTTGCTAG	CATTAATGGC	4200
AATCACAACC	TCAACCTGCT	CTTTCAATTC	TTGCAAGAGC	TTGATTTTGT	TGTCAGGTTC	4260
ATAACCAGGA	AGGACACGAG	CAGCGTGGAA	ATCTTCTAAC	ATTTTACCGC	CAAACTCTAA	4320
GTAGAGCTTG	CCGTCAAATT	GGTTAATGCG	CTCCAAAATA	TGGTCGCGTT	GTAAATTCAA	4380
ATATTGTTCA	GAACTAAAAG	CTTGTTTTTT	CATTTTTTTA	CCTCTGGACT	CTATTATAAT	4440
AAAAAATTGG	AAGTTAGGAA	ACTACGGAGC	TAAAAAAGAA	ATTAAAAAGA	TTAAGCAAAC	4500
GCTTGCACAA	AATTTTAAAA	AGTGCTATCA	TAGACTATAG	ATTATGAAAA	TAATGAGGTA	4560
AACAGATGCA	AGAAAAATGG	TGGCACAATG	CCGTAGTCTA	TCAAGTCTAT	CCAAAGAGTT	4620
TTATGGATAG	TAATGGAGAT	GGAGTTGGTG	ATTTGCCAGG	TATTACCAGT	AAGTTGGACT	4680
ATCTAGCTAA	GCTAGGAATC	ACAGCAATTT	GGCTTTCTCC	CGTTTATGAC	AGCCCTATGG	4740
ATGATAATGG	CTATGATATT	GCTGATTATC	AAGCGATTGC	GGCTATTTTT	GGAACCATGG	4800

			680			
AGGACATGGA	TCAGCTGATT	GCAGAAGCTA	AGAAGCGTGA	CATTCGTATC	ATCATGGACT	4860
TGGTGGTCAA	TCATACCTCA	GATGAACATG	CTTGGTTTGT	CGAAGCCTGT	GAAAATACTG	4920
ACAGCCCTGA	GCGAGACTAC	TATATCTGGC	GCGATGAACC	CAATGACCTA	GATTCTATCT	4980
TTAGTGGGTC	TGCTTGGGAA	TACGATGAAA	AGTCAGGTCA	ATACTATCTC	CACTTTTTCA	5040
GCAAGAAACA	GCCGGATCTC	AACTGGGAAA	ATGAAAAACT	TCGCCAGAAA	ATTTATGAGA	5100
TGATGAACTT	CTGGATTGAT	AAAGGTATTG	GTGGTTTCCG	TATGGATGTT	ATTGACATGA	5160
TTGGCAAAAT	TCCTGACGAG	AAGGTAGTCA	ATAATGGTCC	TATGCTCCAT	CCCTATCTCA	5220
AGGAAATGAA	TCAGGCGACC	TTTGGAGATA	AGGATCTCTT	GACAGTAGGG	GAGACTTGGG	5280
GAGCAACTCC	AGAGATTGCC	AAGTTCTACT	CTGATCCAAA	GGGGCAAGAA	TTGTCTATGG	5340
TCTTCCAGTT	TGAACATATC	GGTCTTCAGT	ATCAGGAAGG	TCAGCCTAAA	TGGCACTATC	5400
AAAAAGAGCT	GAATATCGCT	AAGTTAAAAG	AAATCTTCAA	CAAATGGCAG	ACAGAGTTAG	5460
GAGTTGAGGA	CGGCTGGAAT	TCCCTCTTCT	GGAACAACCA	TGACCTCCCT	CGTATTGTCT	5520
CAATCTGGGG	AAATGACCAA	GAATACCGCG	AAAAATCTGC	CAAAGCCTTT	GCAATCTTAC	5580
TTCATCTCAT	GAGAGGAACT	CCTTATATCT	ACCAAGGTGA	GGAGATTGGG	ATGACCAACT	5640
ATCCGTTTGA	AACACTGGAT	CAAGTAGAAG	ATATTGAATC	TCTCAACTAT	GCGCGTGAGG	5700
CTCTTGAAAA	AGGTGTTCCG	ATTGAAGAAA	TCATGGACAG	TATCCGTGTT	ATTGGACGTG	5760
ACAATGCCCG	TACCCCTATG	CAATGGGACG	AGAGCAAAAA	CGCTGGTTTC	TCAACAGGTC	5820
AACCTTGGTT	GGCGGTTAAT	CCAAATTACG	AGATGATCAA	TGTCCAAGAA	GCGCTGGCAA	5880
ATCCAGATTC	TATTTTCTAT	ACCTATCAGA	AACTGGTCCA	AATTCGCAAG	GAGAATAGCT	5940
GGCTAGTTCG	AGCTGACTTT	GAATTGCTTG	ATACGGCTGA	TAAGGTCTTT	GCTTATATAC	6000
GTAAGGATGG	CGACCGTCGC	TTCCTAGTTG	TGGCTAACTT	GTCCAATGAA	GAGCAAGACT	6060
TGACAGTAGA	AGGAAAAGTC	AAATCTGTCT	TGATTGAAAA	CACTGCGGCT	AAAGAAGTAC	6120
TTGAAAAACA	GGTCTTGGCT	CCATGGGATG	CTTTCTGTGT	GGAATTACTA	ТАААТАТТТТ	6180
TTGCAGAAAA	ATTTAAAATT	GAAATCGTAT	AAAAACAAGG	GAGGACTGTA	TAAAAGACAG	6240
AAATCCTTTG	TTTTTTATAA	CCAAAGTTTA	TAAACTTTCA	TTCTTGAAAT	TCAATTAACT	6300
TTACAAATTC	CCACTATTAA	GGAGAAAGAA	GATGAACATA	AAGAAGCGTG	TCCTTAGTGC	6360
AGGCCTGACT	TTTGCATCTG	CTTTGCTTTT	ACCCAAATCA	TTCATACCTC	TCTCAACTAG	6420
ATGTAACTTA	CAAAACCCCT	GACCTCATGA	GCCACTTTCT	TCCTCCTCAT	GAGGTCAGTT	6480
TTACTTTCTG	CTGTTCCAGT	ATCGTTTTTC	CTCGCTAGAT	TTCCTCAAAA	GGGCAGACTC	6540
CTCCCTTGGT	GCGTCACACG	ATTTTTTCAT	CTCGACTGTT	CTTTAATGCA	TCATTAACGA	6600

681

CGCTTTTCTT	CTAGGTGGTT	CATAAGGAAC	AGGAAGATTC	AGGTTGACTT	TTCTAATCCT	6660
AGAATAAAGT	GCTGAAAACA	ATTCGGAATA	GGCATAGAGA	CTAGACAATT	TGAGGAGCTG	6720
CTTGCGTCCT	GTTCGAACAC	ATTTTCCGG				6749

(2) INFORMATION FOR SEQ ID NO: 85:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1842 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 85:

TCTACCCATG	GACTTTGAGG	CATTCATTGT	TCCATCTTCT	AGTGGCGAAT	CTTTTGATAC	60
AAACGATTCA	ATTCACTTGG	ATAGTGAAAC	TCTCCCGCAA	ACATTTTTCT	GGTTAACTCA	120
ATCCAGCTGA	TATTTCTTTC	AGCCAAAATA	ATGGACAAGT	TCTCCCAAAA	TCGTTCAGCC	180
ATATTGCTTC	TCCTTTAGTT	AGATAAATAA	TGTGTTTGCG	CCATGTAAAT	CAATTGTTTC	240
GTATCTCTTG	GCAATAGAGC	TCTAGCCTCT	TCCAAATTCA	GACTTGGATA	AACTCGCTTA	300
TTTGAAACCG	CAAGAGGAAG	TCTGATGGTT	AGTTCAGGAT	TTTTTAAAAT	TATCTCAACG	360
AAATCCGTTA	ATCTTAGATT	GTCACGGTTC	TTAAATCGTA	ATAAATTGGG	AGATAAAAAC	420
TCAAAACAAT	CTGAAGAATA	GCTCATCATC	TCAATTAATT	TGTCCTTTGT	CATTTCAGAA	480
ACTGAATGAC	AAGATACCTC	TATGCCATAG	TTTTGGAAGA	AATCTAAAAG	AAGTTGATTT	540
CTTTGTCTAT	TTTTACTTAG	ATAGAGATCA	ATCATGGGAG	ACCTCCCAAA	GATTCGGTTC	600
CATTTGATAT	TCTGACACGA	TTAAGGAATC	TAATAAATTA	AGGAATCTAA	TAAATTTGCG	660
AAGTTAATCG	GTTTCTTGTC	TTCATCATAA	GCTTTTACAG	TTACTTGGGT	TGTAAGTATT	720
CCCTCTTTTC	CCTCGGCTCG	ATAGCCTTGT	CCATATAAAA	CAAAAACGAG	ATTTTGATGA	780
TCATCTACAA	AGGCATCAAC	CCCATTCTTT	ATGTCTTGAC	TTTCAAGGAA	TTCCATAACG	840
TTTTGAAGAT	AGGATTCGTA	AAATAGTGGG	TAGTTATGTT	TTTTATGGTA	ATCATCTAAA	900
AATGTCACTT	CAAACTCACA	TGGAGAGTAA	TTTTGACTTT	GAACAGCCTA	AAAGTGCCAT	960
CAAATTTGAA	TTGGAATAAA	тсааатааат	AGCCCCATCC	TCATCAATCC	AACCTTTGCT	1020
CAAAGACAAC	TCCAACCGAT	CTTTTAAAAC	TGAGTAAACC	ACCTTAACCT	CCAGTTTCAT	1080
ATTCTTATAC	CGTTCACTCT	CAAATAAAAG	TTTGGGGAGC	ТТАТААТААС	GCTCTGATGT	1140
CTGATATTGA	TTAGCGGTAA	TACGCTTCAT	TATTGTCCCT	CCAAGACTAA	AATTCCAACA	1200

682 TTTCCAAATT CATCAAATCG GATTAAACCT ACTTGTTCCA TTTCATCAAC TAACTGAGTT 1260 GCTTTTACCC AAATCATTCA TACCTCTCTC AACTAGATGT AACTTACAAA ACCCCTGACC 1320 TCATGAGCCA CTTTCTTCCT CCTCATGAGG TCAGTTTTAC TTTCTGCTGT TCCAGTATCG 1380 TTTTTCCTCG CTAGATTTCC TCAAAAGGGC AGACTCCTCC CTTGGTGCGT CACACGATTT 1440 TTTCATCTCG ACTGTTCTTT AATGCATCAT TAACGACGCT TTTCTTCTAG GTGGTTCATA 1500 AGGAACAGGA AGATTCAGGT TGACTTTTCT AATCCTAGAA TAAAGTGCTG AAAACAATTC 1560 GGAATAGGCA TAGAGACTAG ACAATTTGAG GAGCTGCTTG CGTCCTGTTC GAACACATTT 1620 TCCCACCAC TGAAGAAAA GATGGCGGAA GCGTTTGATT GTTAAAGTTT GGAAGTCACC 1680 TCCAGCTAGA TGTTTGAGAA AAAGATAGAG ATTGTAGGCG ATACAGCTCA TCATCATACG 1740 AACTTCGTTT TTGATTAAGG TTGAACTATC CGTTTTATCG CCAAAAAATC CCTCCTTCAT 1800 CTCCTTGATG AAATTCTCGG CTTGACCACG TCCACGATAA AG 1842

(2) INFORMATION FOR SEQ ID NO: 86:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 86:

TCATCTTTAT	CTCCTCGAAA	TTTTCTAATA	TAGCCATTAT	AACAGAATTT	TGTGAAAATT	60
CCTATTATAG	ТАААТСАСТА	TTTCAGTATA	AAAAGAAAAA	ACGAATCAGA	CGATTCGCTC	120
TTCTTAAAAT	CTGAAAATAG	CTTTCCAGAA	AGGATTAGCC	GATTTTTTGC	AGATTGAGCA	180
CTGCATCGTG	ACTCATCAAG	ACTTGACCAT	ACTCTTGTAA	GACTGAGCGA	CTGATATCAC	240
TATCGTCTGC	AAACTCGCGC	ATACGGGCCA	ACAGCCAAGC	TGGATATGGG	CTTGGATGAT	300
TTTCAATATC	CACTAAAATG	GTCAAATAAT	AGCGCTCGTT	CATTTTGTAG	AGTTCAGAAG	360
TTTCCATTTC	AAAAGTCACT	GTCTTGGCAA	AAGCTACCAA	GTCAGCCAAC	TTAGCAAAAG	420
AAAGGATGTA	GTAGATGTAA	GGTTCTTTCT	TACTCTCAGC	TTCTTGTTCA	GCCTGCTCTT	480
GCTCTTCTTC	CTTGACTTCA	ACTTGCTCAA	GAGATTGAAT	GGCTTCGATA	TCATCCTTGG	540
TTTTGTCTGC	GATGCTTTTT	TCCAGGGTTT	TGATAAATTC	ATCTGGAGAC	ATTTGAGCCA	600
ATTCTTCCAT	ATCTGGCAAA	TCCGATAAGT	CTTCAAAATC	TAGATTTTGG	TCAATCTTTG	660
ACTTGGTCAC	AAAGACATCT	ACCTTATCAG	GTTTTGGAGT	CACACGGAAG	CTCAACATGC	720
CTGTATCCAG	AAAGCTATCA	GGCATCTCTA	GCTCATCCAA	GATAGCATAA	AAGAACTCTT	780

CTGTTTTTC	TTGAGGAACG	AGAAAGTCAG	CAATCTCCAT	TCCACGATCC	ATCAAATCCT	840
CTAAAGATAT	CGTGATTTTT	AAAGTTGTAT	CACTAATTTG	TTTCATTTTC	ATTGCTAGTA	900
ACCTCATACT	TTCAGTTCTA	TCTATTATAC	TAGATTTTTA	CGATTTTATC	AAAAGAAGGC	960
TCCTCTATAC	GGATAGATTT	TCCCTAGGGT	CTTTCTATAG	GAGACTCCAA	AAGAAAATTT	1020
CTGCAGACAG	ATAGAAAAAG	CCTTCAAAAT	CGGCTAAGAG	CCGACTTTGA	AGACCTTATA	1080
CATCAGAATA	CTTATAATTT	AAAGGTTGCT	ACACCGAGGA	TAGAACGATT	TAAGTTTCTG	1140
AGAATTTGAA	GACTTTGCTC	AAATTTCTTA	TAACGAGTCA	CTCCGTACTC	TTCAACAAGA	1200
AGGACTGTAT	CTCTTTCCAA	AAGAGATGAT	ACATCCTGTA	AATCTACAAA	ATGCATTCCT	1260
TTTAAAGCTT	CTTGACTCTG	TTTCAATTTA	TCTAAGATAG	CTTTATTTGA	GCTAACGATG	1320
GTCAATTCCT	GTCCAGTATT	TTTGTATGAC	AAAACATCTG	CTAGGTTAGC	AATTGTTGTA	1380
ATCTCTGTTA	CAAAATCAAT	TTGATACTGA	GAAAAATCAC	CTACTCTATT	GATTGTTGGA	1440
TTAAAGAGAT	AAACTAACAC	ATTTCCCATC	ACAACCAAAA	TCACACAAAC	CACTCCAATA	1500
ACAACTAAAC	GAAGAATCAG	ATTTTTCACA	TTTAAGCCAA	GCGCTGTTTC	ACCATTTGCG	1560
TTCAATTCTT	TAGAGTTGAT	GGTTTCCAGT	TTTTCAATTT	TCACATTTGC	ATAGGCATGT	1620
TTAAATTTCT	CAATCAACCC	ATCAATTTTT	TTCTCTAACA	AGTTATTGGC	ATCTTTACTT	1680
GATGTCAAAA	TTTTCACACC	AACCCCTGCA	TCGTCAATCA	TATAGTAGAC	GGTCAATTTT	1740
TTCCACCAAT	AGTCATTCGT	TGAATTTTTC	AAGGTTGTTT	CTGTCGTGTC	TAATTCACTG	1800
GCAATTTTTT	TCAACTCACT	GGGTTCTACA	TCATTGAAAA	GATAAGCTCC	ATTCAAATTA	1860
CCATCAATCA	ATTTCCCATA	AAAATCACTA	TAACCACCAA	TTTGATGATT	CAAAATCGTT	1920
TTGTCCGACT	CTTTTGGAGG	AGTGATTTTA	TAGATAAGAT	AAGTTGAATA	ACTTGTTGTA	1980
TCTTTGACAG	TGTTTTTATT	CCTAACTGCT	TTAATTGTAA	ATGGTACAGC	AATGAGAGCA	2040
AATAAAGCGA	TGAGAGCTAA	AATATTTGCT	TTTCGCTTTT	TATAAAGATT	TGCAAACAAA	2100
TCAGCTACTG	AATAATGTTC	AAACATGATT	TTTTTCTCCT	TTGTTTAGTA	GATACTAGTT	2160
TTCCTTTGTA	AGCATTTTTG	CTACAAATAT	AATCACAAGA	ACAATTCCCC	AGAATTGCAT	2220
TGTAAATAAA	TTGAAGAAAC	TTTCTGAAAA	GCTGCTTCTT	GGCATAAAGA	ATAGATTATT	2280
CAAGATGAGT	AGGGATAAAG	CAAATAGGAT	TGTCCTTGAG	CGATAGGCTA	CTTGCAGCAT	2340
GGCTATAAAT	AATACGCCGA	GTAAGAAACT	AAGCAGAAAG	ACTCCAATCA	TACCATAGTC	2400
GGTATACAAC	TCCATGATAT	AACTACTTCC	GATACCATGC	CCTTTCAAGT	ATTCCTTGTT	2460
CAAGACAAGA	TAGGATAGAT	TGTGGGCATA	ACTATTACTA	TCAATAGCTA	GTTCCACACT	2520

684 ATTGGTTGTA TGTTCAAAGG CTTTTCCTCC GAAAATGGCT CCCAAACTCC CCCTTGCAAA 2580 ATAATCAAGA ACAGGACCAA AAGTAAAATT ACGGAAATCT CGGTAAGGGA GGCTACTGTT 2640 AAATAGAAAA CCTCGAGCCA GAACACCAAA ACTAGTCCCT TGTTTATAGA TAAAGTCAAG 2700 TAAGATATCC CAGAAACCTG TATGGGAAAC TTGGACATTA TCCCGTACAT AATTGAGTAC 2760 TCCCATCGCT AACATGAGAA TAGGAGAACC TACAAAAATC GCTAACTTTT CTTTAAACCC 2820 AATCCATTTT CCTTTTCAG TTTGCTCCCG CATAAAGTAA TAAACAAAAG CAAATMAAAT 2880 ACTTAAAATA AAGGGATTTC GTGTCCCAAT TGCCAAATGA ATAGTATTAG CTGCAATAAA 2940 GGAGACAAGC ACTGCTGTGG CCTGCAATTT CTTTGGCTTG GTTGCCAGAT ACATACACAT 3000 TGCATAGACC GTAAAGGTAG ACAAAATGTA GGTAAAATAA GGCAGTTTAC TTTCAAAATT 3060 TGCATAGTAG GCATAGTAGG AAGTCTGCAA ACGATACAAG AGCCGTTCAA ATAACCGAAT 3120 GAAATAGAAA GGATAAGTTA GAAGAAAAAC TCCTAGTGAT ACAAAGCGTA ACCGCTTGAT 3180 ATAAACCTCT TTTAGAGAAT TTCCTATATT TGCTACTTTT ATTTTCTTCC TAGCTATGAA 3240 GTAACGAGCC AGAATGCCTC CTGTGGTCAA GCCCAGAATC GAAATCATGA CAACTATAAA 3300 GGCAAAACGA TAGGCTATTG GATGATAGGT ATCCAAAGCA CCATCCCTAA AATAATCAAT 3360 3420 ATACTTGATA TCATTCCAAC AAGCAATTAA GCTACTAACC AACAAGAACA ATAAAGTAGA 3480 AAGTAAGCTA ACATTATTAT TATTAAACAG ATACACAATT CCACTTACTA GCGTCAAGGC 3540 ATAACTGACT ATGGTCAAAC TAAATAATAA TCGTTTCCCA TCAATCACTT GGTCACCCCC 3600 GTTCTAATGT AATTTTTTAG ATTTTTCAAT ATTTTTCAGT AATAAGAATC GATATAAGGA 3660 AATATTTATG AATAGGGCCA AAGCACTAAT TCTTCTCCCC TTACGGAAAA TTGGATTCCT 3720 AGAAATAGCA AAGGCATGGC CTTTTAAAAA ACGATGAATC TGAGAATAGG CTTCAAACTG 3780 TTTATACTGA TCATCTAGCA ACATCTTATC CAGAATAAAG AAGTGGGCAT AGGCCAATCT 3840 GAAAAAAGCG ACCTCTTTCA AGTCAGGATA GTTTTTCACA ACTTCATTAT AAAACTTTTG 3900 GTAGATATCA ATATAGGCTA AATCCTTCTC TGCATAGGGT TTGGTCGTAA TACTATCCCC 3960 TCTATGGAAA TAGTAATAAT AGGGTTTAGT ATTAACCACA TACTTCTTGG CCAACTTGAT 4020 TAAATCAAAA TGGTAATAGG CATCTTCGTA AATCAACCCC TTAGGAAAGG ATAGGGCAGT 4080 TGCAATCTGT CTCTTGATTA GCTTATTGCA AATCGTCCCA GGTATTTTTT CACCTATGAG 4140 GTATTCCTTT AGAAATGTTT GAGAATCACA GACAAAATAG TCATCCTGAT TGGCTGACTG 4200 TGGGCTTTCA TCATTAGCAT AGACATTCAT GACACCACAG CTCGAAACAT CCGCATCTTC 4260 TTGAACTAAT TGCTCATATA AGCTCTGAAT CATTTCTGGA TGGATATAAT CATCTGAGTC 4320

	AATAAAAATC	AGATAATCCC	CGTGAGCCTG	CTTCATCCCA	TCATTTCGTG	CTTGCGACAA	4380
	TCCTTCGTTC	TTTTTATGAA	GCACTGACAC	CCTGTCATCT	TGTTCAGCGA	TTGAATCACA	4440
	CAAGCGACCA	CTTTCATCTG	TTGCACCATC	ATCAACAAGA	ATAATTTCCA	GATTTTGATA	4500
,	GGTCTGCTTC	TGAATGGAAG	CTATCGATTT	TTCTAGGTAC	TGCGCCACAT	TATAGACTGG	4560
,	CACAATCACA	CTAATTAATG	CAGTTTCCAT	GCTACTCCTC	TAATAGTTTT	TCTACTTGTT	4620
	CGATTTGTTT	TGTAATTGTA	AATTGTTGAA	TGAATTGGCT	AGCCTCATCG	ACATCAAAGT	4680
•	TTGAGGCAGA	AGTCATGTAA	TTAGTAATCG	CCTGAGCTGC	CTCTTGATTG	CTCTCAATGA	4740
,	TTTGTCCAAA	TCGTCCTTCT	TGGGATAATT	CCTCAGCCCC	TCCAACGTCC	GTAGAGATAA	4800
	AAGGGAGTCC	CAGACTCAAG	GCCTCCACAT	ACACTCCAGG	AAAACCTTCT	TGTTTAGACA	4860
•	TAGACAAAAG	AACTTTCGTC	TGAGATAGAT	ACTGATAAGG	ATTTTTTTGA	TAACCAAGGA	4920
2	AATGTACATA	GTCCTCAATC	CCATACTCTT	TGACTCGTTT	TTTCAGTTCC	TCTTCCATAT	4980
(CACCAGCCCC	GATAAAATAG	AGATGATAGT	TTTTTCCCTC	TTGGTGTAAT	AATCGTATCA	5040
(CTTCCACTAC	ACGGTCAGAA	CCCTTATTTT	CCTCAATCCG	TCCGATAGTA	CAGATACTTT	5100
(GAGGAGCAAT	CTCGATATCG	ATCTTCTCTT	GAGATTTTTC	TAGAATAGTC	TGAAAATCAT	5160
ž	ATCCATTGTA	GATTGTCTGT	AATTTAGAAG	TATAATCTGG	ATAAACTTCC	TTGATAGAAT	5220
•	FGCTGGTCTT	TTTTGAAATC	CCTACAATTG	TATTCGCAGC	ATCCAACTGG	CTTCTATGTG	5280
ž	ATTCTCTTTT	AGAGCTATCC	TTAAGAAGTT	CTTCAATACT	TCCATGAATC	CAAGATATCT	5340
	PCTTGACTTC	TCTTCTTTTA	GAGAACAACA	GTGGTGGATT	CATAATGGTA	AAAGAAACTT	5400
(CAACATCATA	ATCATCTTTT	ACAAGCAAAC	GACGAGTCAG	TCTTGGAAAA	TAAATTCTCA	5460
	TTCTCCACAA	AAAAGCTCGT	AACCATCTGG	TTTGGCGATA	ATCTTGAAGG	GATTTTAAAA	5520
	TGCGTACATG	CTTTGGAACA	GATTCATATC	CCTTGTCAAA	GTGCTCCATT	TCAAGAATAT	5580
(CAATATCATA	CTTTTCTGGA	TCCAGATTTG	AAACAATGGT	TGATAGAATC	TTCTCTGCAC	5640
(CACCTCCAAG	AGAAAAAGAC	CACATAAAAA	ATAAGATTTT	TTTCTTAGCC	ACCATATTCT	5700
(CCCTTGTATT	CTGTATAAGA	СТТАТССАТА	TCAGCGATGA	CAGCATCATG	ATGCGGTACC	5760
7	TGCTTGTCTG	CTGGTGGAGG	CGTCATATAA	TCCCCAAAAG	CAGTTCTGAG	ATAGACATCA	5820
7	TAGCCGATTG	GAATAGGCAT	CTCTGTTCCT	TCAAATGGCA	AGAAAAGATT	GTCTTCAAAA	5880
C	SATGTGATTG	GGTACTTGTT	TCTCATGTAG	CCAGGACCTG	AGCATAATTC	TGTAATGCCA	5940
7	CACAATCAG	CCAAATCATA	CTTAGTCATT	TCTTTCTCAG	CTTTTTTCCA	GATGCGATAA	6000
C	CGGAGAGATT	TTGGAGTCAA	ACCCAGTAAA	ATGCGACTTC	CCCATTTCAT	GAGATCACCA	6060

			686			
TGCTTTTCTG	GAATAGTTTG	CGCACAAAAG	AGTGAATAAA	TCAAGGCCCA	ACGAACCTGT	6120
TTTTTCCGCT	CAGCTGGATT	TTTCGGATAA	TAATCCAAAG	GCAAAACATC	CAAGGCCAGA	6180
CCATGTGGCA	AATCCAAATC	CTGCTGATAA	GGCTTGATAC	AGGTGGTTTT	CTTGTCACGA	6240
ATGGTAATAA	AAAGATTACG	ATCAACAAAA	TCCTTGTGAC	TCTTTGACAA	GAAATAACGT	6300
TCATCTGCAT	AACGAGGCCA	TAATTCTGCT	AATTTCTCAT	AATCTTTACG	AGGCATAAAA	6360
AAGTCTAGGT	CGTCGTCCCA	AGGAATAAAT	CCCTTGTTTC	GAAGGGCACC	AATAGCGCCT	6420
CCGCCACAGA	GATAACAGAG	CAAATCATGT	TCTTTACAAA	AGGCCACAAA	ATATTCAGCC	6480
ATCTCCAGAC	TACGAGCCTG	AATTGCTTTT	AAATCAGTCA	TATTGTTCAT	TATTCTTTCT	6540
ATCGTATCGT	TTCATTATAC	CACAAACAAG	GGGTGAAAAT	CTATTGCAGA	CTGTAAAAAA	6600
TCAAAGCCTG	ACTGCTATCC	AAATAGCTAT	CAAACTTTGA	TTTTTCTGTC	TTATACTCTT	6660
CGAAAATCTC	TTCAAACCAC	GTCAGCTTCA	CCTTGCCGTA	GGTATAGGTA	ACTGACTTCG	6720
TCAGTCTTAT	CTACAACCTC	AAAACTGTGT	TTTTAGCAGC	CTGCGGCTAG	CTTCCTAGTT	6780
TGCACTTTGA	TTTTCATTGA	GTATTATCTT	ATCTTAAGCC	CATTTGAGCG	AGCTTGGTTT	6840
GATATTTGTT	TTGATCAACC	AGCAGGCCCA	AGCCCCCATA	AACATCATAG	GCATCTACCC	6900
AGTCACCCAG	TTCTGGAATC	GTCAATTTTT	CAATACCATT	TTTTGCTCCA	TCCAAAACAG	6960
ATAAACCGTT	TGTTAGGAGG	AAAGTATAGG	GTACGTTGGT	TGAGGTCATA	GCAAAAACCT	7020
TTCCAAGAGC	TTCAGAACCA	GTGAAAAGTT	TAGTGGGATC	TTTAATTTGC	TCTAAAATTG	7080
CTGTTAAAAC	TTGTTGCTGT	CTTTTTGTAC	GGCCGTAATC	TGCCTCATCA	TCATCACGGA	7140
AACGAGCATA	ATTGAGCAGG	GTCGAGCCAT	TCATCTGCTG	TTTTCCGACT	TTAATGGTTT	7200
GGGTTGGAGA	CTCAGTCTCG	GTAGCGTATA	AATCATCTCC	GACTGTAGCT	TCTGTTAGGG	7260
GACGCCCATT	CAATGTTGAA	AATTGAGCAT	CAATCGTCAC	CCCATCAGGG	AAAAGCGTGT	7320
CAATCGCTGT	GGCAAAGGCC	TGGAAATCAA	CCAAGGCGTA	GTACTTAATG	TCCAAGTCAA	7380
AATTATCTTT	CAAGACTTGG	CGAACCATTT	CTGCCCCTTT	TTGCCCCTCT	TGTTCTCCTA	7440
ACTCGTAGGC	TACGTTTAAC	TTGTTATCTG	TCTGTTTTCT	ACCATTAATC	ACTTGACTAT	7500
AACCATCTAT	ATAGACCAAA	TTATCACGCA	TGAAACTGAC	TAGCTTCATT	TTCTTATCTG	7560
AGCCCCCGAC	ATTTAATACC	ATAATAGAGT	CAGTTCGTGT	CTCAACACTG	TTCTGGCCGA	7620
TTCGACCATC	AGTACCCATG	АТТААААТАТ	TAACTCCATC	TCTAGTGTCC	TGACCATTAA	7680
AGACTTCTAC	TTGAGCTGCC	CGGGCATCAG	CAGTTTTCTT	TGCGCTAGCA	TCTTGGTAAC	7740
CACGCAAAAA	CATGAATACC	ATGGCCAAAG	CCACACAGAC	CAAAAGTGAA	AAAATCACCA	7800
FAAAAATTCG	TTTAAGACGG	AGCTTCCGTC	TTTTCTTTTT	TGGAGGGAAA	GAGAGTGCTT	7860

GTGATTTGGA	TTGTGAGCGA	CTCCGGTTCG	CATAGCTTGG	TAAGTCAACC	TGCTCTTCTC	7920
TTTCTTGTTC	CAAGCTAGAG	CTACTATTTC	CCCTAGCAAG	AGTTAGCTTT	TCTTGCAAAT	7980
AGGCAAACTC	ATTTTTTTCT	CTCTCATTGA	GATAGTGAAT	ATTTTTTAGC	AAATAATCAT	8040
AACGCAACTG	CTCATGATGA	CTTAAGGGAT	TTTCTTTACT	CATCTTCTCT	CCTTTCCATG	8100
GTCTGATATT	GGATAAATAG	GATAGGCACC	CAGAATTTTA	TACTGGATTC	CAATCGCTTC	8160
TAATTCTTTT	TGGGCAAAGT	GGACCAAGTC	CTTATCGGTA	TAATCCACAT	CGATAATGAA	8220
AAAGTATTCA	CCCAGTGCTG	TCTTGAGTGG	ACAACTTTCA	ATTTTTGTCA	AGTCAATTCC	8280
TCGCCAAGCA	AAGGTCGACA	GGGCCTTATA	AAGTGCACCT	GGAAGGTTGT	CAGGTAATGT	8340
CAAGGCCAAA	CTCATCTTTT	CAGTTTGTGC	TTGCAAGGGA	ATACTAGGCT	TTTCAGCTCC	8400
TAGAACCCAG	AAACGTGTGA	AATTGGCTTC	CATTTCCTGA	ATATCCTCGG	CAATCAGTTC	8460
CAATCCATAT	TCTTCAGCAG	AACTTCTAGG	TGCAACTGCT	GCAAAGGGCT	GGTCTGGATG	8520
TTCGGAAATA	AAACGGGCCG	CATAAGCTGT	ACTAGCTGTT	ACCTCGATTT	GAGCCTCTGG	8580
ATATTGTTCA	TCGATGAATT	TCTTTCCTTG	AGCCAAGGCC	TGTGGATGTG	AAAAAATCTT	8640
TTCAATCTTA	GTATGGCCTG	GAACCACCAT	CAACTGCTGA	TGAATAGGCT	GAACGATTTC	8700
TGCTACTGCT	TGGATGTGAG	CCTGATGAAA	AAGATAGTCC	AAGGTTTCAT	GAACACTACC	8760
CTCAATAGAA	TTTTCAACTG	GCACCACAGA	ATAGTTCACT	AATCCTTGCT	CATAAGCCTT	8820
GATGACATCT	GTAATGTTGG	CAAAAGCCTG	CAATTCCTCA	TGAGGAAAAG	CTGTCTGCAC	8880
AACGTGGTGT	GAAAATGATC	CCTTGGGACC	TAGATAAGCA	ATTTTCATCT	TAGTTCCTCT	8940
ATAATTTCCT	CTGGGCTTAG	CTTGGTCACA	TCCAAAACCC	GACTAGCCAC	TTCCTCATAC	9000
CAAGCCTGTC	TTTCTTGGAA	AATAGCTACT	AGTTCTTCCT	TGCTATTATT	TAGAAAAAGC	9060
GGTCGCTGAT	TGTCCTTATC	AGCTGCGATA	CGTTGGTAGA	GGGTTTCAAA	ATCTGCTCTC	9120
AGGTAGATGT	TATCTGTATT	AGTCTTGAGT	AAGTCACGAT	TTCTCTGAGA	AATAACCACT	9180
CCTCCTCCAG	TTGACACGAC	TTGGTCTGTT	TGTAGTAAAT	CAGCTAGGAC	TTCTGATTCT	9240
ACCTGACGAA	AGGCTGTTTC	TCCCTTTTCA	GCGAAAAAAT	TCGCAATGGA	CATACCTAGG	9300
CGATTCTCAA	TCAGAGCATC	CATATCAAGG	TAATTAGGGT	CCAAGCCTCT	TGCAATAGTC	9360
GATTTTCCAG	CCCCCATAAA	CCCTAATAAC	ACCTTAGCCA	TGAATCAAGC	TCTCCAAATC	9420
ATCAAAGAAA	CTAGGATAGC	TGGTATTGAT	GGCTTCTGCA	CGGTCAAGCT	CCACCTCTCC	9480
ATCTGCAACC	AAGAGGGCTG	CGATAGCTGT	CATCATGCCG	ATACGGTGGT	CACCAAACGT	9540
ATTGACTCTA	GCACCGTGAA	GAGCTGATTT	TCCTTTGATA	ATCATCCCAT	CTGCCGTAGG	9600

688 AGTAATATCT GCTCCCATAC TATTTAAGGC GTCTGCCACA ACCTGAATAC GGTCTGTTTC 9660 CTTGACCTTG AGCTCCTCAG CATCCTTGAT AACTGTTACA CCTTGGGCTT GGGTCGCAAG 9720 CAGGGCAATA ATGGGCAATT CATCAATCAA TCGTGGAATC AAAGCGCCAC CAATCTCTGT 9780 TCCTTTCAAG TCAGAAGACT CAACAATCAA GGTAGCAGAT TTAGCGACTG GATCGATTTC 9840 AGTTATTTCC AATTTTCCAC CCATGGCACG AATGACATCA ATAATACCGG TGCGAGTTTC 9900 GTTGATCCCC ACATTCTGCA GCACTAGACG AGAATTTGGA GCAATCAAAC CTGCGACTAA 9960 CCAAAAGGCT GCACTGGAAA TATCTCCTGG TACGACCACC TTCTGTCCTG TCAATTTTTG 10020 TGGCCCCTGG ACTGTGATTT TCTTACCATC CACACTTAAA TGACCACCAA ATTGTTTCAA 10080 CATATCTTCA GTATGATTAC GGGTGTACTC TTTTTCGATA ATAACTGACT CCCCCTTAGC 10140 TTGTAAGGCT GCAAACATCA AGGCTGACTT GACTTGGGCA GAGGCAATTG GCAACTCATA 10200 ATGAATAGGT CTTAGGTTTT TCGTCCCTTT TAAGCGAAGG GGAGGCAAGT CTCGTTCAGT 10260 TTGCCCTGAA ATGCTGACGC CCATTTTTTT CAGTGGAAGG GTCACACGGT CCATAGGACG 10320 TTTGGAAAGA CTATCATCTC CAAACATCTC TACTTCGAAA TCTGCACCAG CAAGGACACC 10380 TGAAATCAGG CGAATCGAGG TGCCAGAATT TCCCATATTA AGGGCATTTT GTGGCGCTTT 10440 TAAGCCAGCC ATGCCTACAC CTTGAATGGT AATAACCCCA TCTTTATCCT CAATTTCAAC 10500 ACCAAGGTCA CGAAAAACCT GCATGGTCGA AAGAACGTCT TCACCTCGCA GAATATCATA 1.0560 AACCTTGGTC TCACCCTCAG CCAAACTTCC AAAGATAATG GAACGGTGGC TGATAGACTT 10620 GTCACCTGGG ACGCGGATAC TACCATGTAA ATGGCGAATG TTTGTTTTTA GTTTCATACT 10680 GGACCTCATA CTTGCAATAC TTTTACCTAT TTTATCATAA AAAGCCAGAA ATTCCTTAAA 10740 AATTCCTGAC TTTAGGATCG TTCTTTTCTT ATTTCAGCAA TTCTGAAACT GGTTCAAAAA 10800 CAATTTTTTC AATATCAGAA AGGTAAATGG CCAATTGTTG TTGCTTGGTA AAGAATTCTG 10860 ACAAGAGGCT ATTTCCTTGA ATCTGTTTAC CAAAGCCTTC CATCTTAGCT TGGAAGGACG 10920 CATCTGGCAT TTGACCTGTC TGTGCTAGTT TTTGAATTTC CTCTTGAAAG GCAAGATAAT 10980 CTGTAAAGAT TTTGCTTGCC TCAGCATCTG CTGCAATCGC ATCTTTAGCT GCTTTAACAG 11040 CCTTGTATTC TGGTAATCCG CGTAGACCGC GACTGAGTTC GTTTGCACTA TCGTAAATAT 11100 TTGACATGTT CTTCTCCTTA TTTGATGACG ACTGTATAGT CAGTATTTTC TGTTATGAGA 11160 TGCTCAGCTC TTTCCAAGTC TTGAGCATTT TTAAATGAAA TTTGTAGGAT TCCGTGAATA 11220 TCCTCACGAT TTTCCTCGTT GATGTGGATA TTAACCAAGG AAGTTCCACG TAGCAGTTCC 11280 AAAATCCGCA GGATGACATC TTCTTCATCA GGAACGTCAA CATAGAGGTC GTAAGAGCTA 11340 TCCACACCAC CACGCTTATG GATTTCCATG GTCTGGCGTT GTTCACGCGC TTGGTTAAAA 11400

AAGTTCCAAA	TTTGCTCTTC	ATCTCCCTTA	CTAATGGCCT	GACCAATCGC	TTCCAAACGT	11460
TCCTTGAAAT	CCTCAATTCT	ATCCAGAATG	ATCTCGCTAT	TGGACAAGAG	AATGGAGGTC	11520
CACATTCCTG	GCTCGCTTTC	CGCAATTCGG	GTCATATCTC	GAAAACCACC	TGCCGCAAAG	11580
CGCCTTGCCA	TCTCATGCTC	TTGAGCATAG	ACCGCAGTCT	GCTCCATGAG	ACTAGAAGCC	11640
AAAATATGAG	GAAAATGGCT	AATCTGAGAA	GTGACACGAT	CATGCTCCTT	GGCATCAATC	11700
TCGATAAAAC	GAGCATGAAG	ACCTGAAAGC	AGATCCTTCA	TTTCCTTAAG	CGTGTCCTGA	11760
CTTGTCAGGC	TTGAAGGTGT	AAAGATATAA	TAGGCATTTT	CAAAAAGATT	GACATCTGCC	11820
GAAGCAGCCC	CTGTCTTGTG	ACTACCAGCC	ATGGGATGGG	CCCCGACAAA	GCGAACAGAC	11880
TTGCCAGCCA	AATACTGCTC	CGCCGCATCC	ACAATGGTTG	ACTTGGTCGA	ACCAGCATCT	11940
GAAATAATAA	CGCCTTCTCG	CAAATCCAAA	TTGGCCAACT	CCTTAATGAA	AGCAATAGTT	12000
TGTTTGATTG	GCAAGCTGAG	GATAATGACA	TCTGCCAAAG	GAGCAAAACT	AGCAAAATCA	12060
TCCGTTGCAC	GGTCAATCAT	ACCTTCTTTC	AAGGCGATAT	CTCTCGAAGC	TTGACTACGA	12120
TTATAACCTA	AAATTTCATA	ATCTGGATGA	TCGCGTTTGA	TACCAAGTGC	CATAGAGGCT	12180
CCAATCAACC	CAAGACCTGC	GATATAGATT	GTTTTTGCCA	TAGGAACTCC	TTAATAGTTC	12240
TTTGTATAGT	CTCGGTGTTT	GGCTACCGCT	TCTTTTAGTT	CCTCAAGATT	ATCTGATGAG	12300
AATTTTTCGA	GGATTTCTTG	CGCCAGAACC	GTTGCTACAA	CTGCTTCCAT	GACCATTCCT	12360
GCAGCTGGAA	GAGCAGTCGG	ATCACTTCTC	TCCACGGTTG	CCTTGTAAGG	TTCGTGGGTT	12420
TCGATATCCA	CACTCATAAG	AGGTTTATAA	AGAGTAGGAA	TGGGTTTCAT	GACCCCACGA	12480
ACAACGATGG	GTTGCCCATT	AGTCATACCA	CCTTCAAAAC	CACCTAGATT	ATTGGTACGG	12540
CGAGTATAAC	CGTCTTCTTT	AGACCAGAGA	ATTTCATCCA	TAACTTGGCT	GCCTTTACGA	12600
TAACCAGCCT	CAAAGCCAAG	ACCAAATTCC	ACCCCTTTAA	AGGCATTGAT	AGAGACAACA	12660
GCTTGAGCCA	ATCTTGCATC	CAATTTTCTA	TCCCATTGGA	CATAGGAACC	AAGACCAACT	12720
GGAACGCCTC	CGACGACTGT	CTCCACAACC	CCACCGATGG	TATCACCATC	ACGTTTGATT	12780
TGGTCAATAT	AGTCCTTGAT	TTCCTGTTCT	CGTTCTTGGT	TGACAATAGA	AACTTCAGAC	12840
TGGGCAGCTC	TTTGCTTAAT	TTCAGCGACT	GTCAGATTTT	CAGGAACATC	GATTTCCTTG	12900
CCACCAAAGA	CCACGACATG	GTTGGCAATC	TCCATATCCA	GCTCAGCCAA	GAGGCGTTTG	12960
GCTACTGCAC	CAACTGCCAC	CCGCATGGTG	GTTTCACGAG	CTGATGAACG	CTCCAAAGAA	13020
TTTCGCAAAT	CATCAAAACG	GTACTTAATC	CCCCCAACCA	AATCGGCATG	ACCTGGGCGA	13080
GGATGAGTAA	TTTTCCGCTT	GCTTTTAAGG	CGGTCTTCAA	TGTCCTCCGC	AGACATGATG	13140

690 TCCAGCCATT TCTGGTGGTC CTTATTGATG ACATCCATAG TAATAGGCGC CCCTGTCGTC 13200 TTCCCGTGGC GAACGCCCGA AGTAAAGACA ACCTGGTCAT TCTCAATCTT CATACGACCA 13260 CCACGACCGT AGCCACCCTG ACGCCGTCTA AGGTCCTCAT TGATATCCTC AGCTGTCAAT 13320 GGAAGTCCAG CTGGAATTCC CTCAATAATA GCTGTTAGAC GGGGGCCGTG TGATTCTCCT 13380 GCAGTTAAAT ATCTCATACA CTCTCCTTAT TTTACCAAGT AGTCTTTCAT CTCTTCCAGA 13440 GAAACTGGGT GAATGGTCGC TGAACCAAGC TCTGGCACCA AGACCAATTT CAAGGTGTTA 13500 CCACGCGCTT TCTTGTCATG AGTAAGAGCC TGATAAAGCT TGCCAACTTC CCAATTTTCA 13560 TAGTCAACAG GCAAACCGAA TTTCTGACAC ATCTCTGTGA TAGATTGGGT AATGCCAGCT 13620 GGCATGAGGC CTTTTTCCTC AGCAACCTTG GAAATCTGTA CCATTCCCAT GGCAACAGCC 13680 TCTCCATGCA TGACCTTGCC ATAACCGGCA GTCGCTTCGA TGGCATGGCC AATAGTGTGG 13740 CCAAAATTGA GGTAAAGACG AATACCATTG TCCAACTCAT CTTCAACCAC CATCTTGCGC 13800 TTCACCTGAC AAGAATGTTC AATCAAGGTC TCTGCATGTT CCAAAATACT CTCAACAGAA 13860 CCATTCAGTC CCGTCAAGAG AGCCCACAGT TCTGGATCCT CAATCAAGCC ATACTTGATA 13920 ACTTCACCCA TCCCTTCAAT CAACTCTCTT TTTCCGAGGG TTTCAAGAAC AAGTGGATCA 13980 ATCAGAACCC CATCTGGTTG GGCAAAGGTC CCCACCATAT TTTTAGCAAA TGGTGTATTA 14040 ACGCCTGTCT TTCCACCGAT AGAAGAATCA ACCTGAGCTG TCAAACTAGT CGGAATCTGA 14100 ACAAAGTGAA TACCCCGCAT ATAGGTAGAG GCTACAAATC CAGCCAGGTC CCCAACAACG 14160 CCACCACAA GAGCAACGAT TCCATCGCTA CGAGTCAGAC CTTGCTTGAC TAGAAATTCA 14220 TAGACTTTCT GAACAGTAGT TAAATTCTTT CTTTCTTCAC CTTCTAAGAA ATCAAAAACA 14280 GCTACCTGAA AACCAGCATC TTCTAGGCTG AGCTTGACCT TCTCTGCATA GAGAGAGGCT 14340 ACATGGTTAT CTGTCACAAT GACTACCTTT TGCGGTTGCC AGAGTTCTCG CAACCACTGA 14400 CCAGCCTGGG CCATACAACC TTTTTCAATC TGAATATCAT AAGGATGGTG AGGAATATCG 14460 ATTCTGATTT TCATAGGAGA GTCTCCCTTT CTTTATTGGT ATTTTTCTGT TAAAGACTGC 14520 CAAATCTCTT CTGTCGGCAT TTCCTTGCCT GTCCACAGTT GAAAAGCTTC TGCAGCTTGA 14580 TAGAGTAACA TTCCCAGACC ATTGACTGCT GGATTGCCCT GACTTCTAGC CCATTTCAAA 14640 AACGGTGTTT CAAAGGGTTG GTATATGATA TCTGCAACTA AAAGAGTTTC TGGTAAGACT 14700 ATGTTTTCAG GAACAGGAGA GGATTGGCCA TCCATGCCCA CACTGGTGGC ATTAACTAGC 14760 AAATCCGACT CGGCAATCCT TGCTTGCAGT TCAGAAACAT ATTCTAAAGC ACACAAATCC 14820 ACTITAAAAC CIGICIGCTC CIGIAACTIG TCIAGGTAAG GICTIGITITI TICCATAGAA 14880 ACGGAACGAA CAAAGACCGA AATCTGACTG ACGCCATCCA AAATAGCCTG TGCCAAGATT 14940

GATTTAGCCG	CACCACCTGC	ACCCAGCAGG	GTCATCTTTT	TACCTGAAAT	TGTAAAAGAA	15000
GGCAAGCACT	таааааатсс	CTTGCCATCT	GTATTATATC	CAATTAAATT	GCCATTCTCA	15060
TTGACAACCG	TATTAACCGC	ACCAATCAAG	CGCGCTTCAT	CGCTCAGCTT	ATCCAAATAA	15120
GGAATCACCT	GCTCCTTATA	GGGCATGGAC	AGATTGATGC	CAAACATCTG	GTAGCGACGA	15180
ATATTGGCCA	CTGTTTCTAC	CAAGTCACTC	GCTTCAATCT	CCCAAGCCAC	ATAAGCACCG	15240
TTGGTAGCTG	TCGCCTCAAA	GGCTCTATTG	TGGATGAAGG	GAGAAATAGA	ATGCTTAATA	15300
GGATTGGCAA	CAACTGCAGC	TAAACGTGTA	TAGCCATCAA	GCTTCATCCA	AAATCTCCCT	15360
GATTTTTTC	ATGCTAGCTA	GAGAAATCTG	CCCAGGGGCA	CTAACCTCAT	CCAGACTGGC	15420
AAAAGACCAA	CTCGAACCAG	TCACATCCGC	AGTGATACGA	GAGACCTTGC	CCACCTTACC	15480
CATAGAAATG	GTCACATATT	CCTGTTCAGG	ATTGAGGGTT	TTAAAGCCTC	GTGTATAGTT	15540
CATCAAGTCT	AAGACATCCT	GCTCCGTGTG	AGCCATCACC	GCAACCTTAA	CAAGTTTTGG	15600
ATTTAGGATC	GTCAACTCTG	ACAAGATTTC	CATCATGTTC	TCAGGTGTTT	CTTGGAAATT	15660
ATGGTAACTC	AAAACAAGAT	TTGGGAAGTC	CAGCATTTCC	TCAAAAACAT	CCTTGTAGCT	15720
ATAGTACTCA	AAATCAATAT	AGTCTGGTTG	ATAGAGTTGC	GCAACTTCCT	TGATTAGATG	15780
GATATACTCT	TCTGGAGAAA	GGTCGATTTC	TCCACCTTCG	GAGCGAGTTC	GTAGCGTGAA	15840
AACCAACTCA	CGGCCTGCGA	ATTTTTCAAA	AATGGCTGGA	GCTACCTGCA	AAATCGCTTC	15900
TTTAGGCAGA	TAGTCGGCAC	GCCATTCAAT	GATGTCGGCA	TCCAGGTACC	TCGTGGCATC	15960
CAGAGCCTGA	GCCTCCTCTA	AACTTCTTGG	CATTACTGAA	ACGATTAATT	TCATTTACTA	16020
ACCTTCATAC	TAATCACCTT	GAGGTAATTA	CTACTTTCAT	CTTTTTTATT	ATAGGCAAAA	16080
TCTGCTGGAA	GACCATATTT	GTTTAAAATC	TGGTAACTTC	TTCCTGCAAA	ACCTTTATCA	16140
ATTTGTTCTG	TAAATTTCTG	ACGGGAAACA	TTGGCAGCAT	TGGTACTGGC	AATGATAATC	16200
CCTCCCGGAT	TTAAAATCTC	AAGACTCTGG	GAAATCAACT	TGTGATAATC	CTTGGCCACA	16260
GAGAAAGTTT	GTTTTTTATT	CCGAGCAAAG	CTAGGCGGAT	CTAGGACAAT	CACATCGTAG	16320
GTCAAGTCTT	TGCGTTTGGC	ATATTTGAAA	TACTCAAAGA	CATCCATGAC	TATAAAACGA	16380
TGCTCGTCTG	TGCTGAGCCC	ATTTGCCTGA	AAATGCGCTT	GAGACAATTC	TCGTGAACGT	16440
TTGGCTAGAT	CAACAGAAGT	TGTATGGCTA	GCTCCTCCCA	TGGCCGCAGC	TACTGAAAAA	16500
GCCGCTGTGT	AGGAAAACAT	ATTGAGTAAG	GATTTACCCA	TAGCCAAGCC	GTCAACTAAA	16560
CTACCGCGAA	CCTCATGCTG	GTCTAGGAAA	ATTCCTGTCA	TCAAGCCATC	ATTCATAAAG	16620
ACTTGATACA	GGACACCATT	TTCTAAAACA	TTGAAAAAGT	CAGGTGCTTC	TTGACCATAA	16680

692 ACATGGGCAG ATTCATAGTC CAAACCCTTA AAGCGGATTT TCTCATAAGC TCCTAAAACC 16740 TCAGGGAAAA CCTGTCTAAA GGCTTCTGAT ATAGTCTGAC GAATCTGATA AACATAAGAG 16800 TTATACCAAG AAAAGACGGC GTAGTCGCCA TAAAGGTCCA CTGTCAGACC CCCAAAGCCA 16860 TCTCCCTCTT GATTAAAGAG ACGAAAGGCA GTTGTCAAAT CATCTTGATA GTAGGCGTTT 16920 CTCTTTTCTT TGGCTTTTCT AAACAACGTT TCAAAGAAAG CTTGATTGAA GGCCACCTTG 16980 TCTTTGCTGA TAAACCAGCC CAAGCCCTTG TTTTGCTGAG AAAGGTAGGC AGTCCCAAGA 17040 AAGTTTCCTT CCTGACCCTG CACCTCTACT TCCTGATCCT TAAGATTGAC ATTCTCAAGA 17100 TCACTGGCTT CTAGTAAAAC TAGCCCCTTA GCAAGCTTCT TTTCAACCCT TTTGCTGACT 17160 CTTATTCTAT TCATAACTAC CATTATATCA AACTTTTAGA CAATTCTCAA AAAAGAAACT 17220 ACCCTTGCTT TTTTACTCTT CTTTTAAAAA ATGGTATACT AGACTTCCTG CAAAACTAGG 17280 AAGTAAATGT GTAAGAATCA CAGTAAAAAA TGCTCTTCCG TCTTGGAGGA GCATTTCTTT 17340 TTATCAACGA AAATCAAATA GCAAACTATG AAACTAGCCT CAGGTTAACT GTGAGATTAT 17400 AGGTAGAGAG GTTGTATCAG CAATATGTGT CTGTCAAATT TAGTGACAAA GGTAGTAGAA 17460 GAAAGATAAA GAAATAAATC AGCTTCAGTA GGTATCTGGA AAATTTGATT TTATAGAGAA 17520 GCCTTTTGTT ACAAACTCAA TATACTATCA ATAAATAATA TTATAGAAGC AACAATAATT 17580 ATAATTTCAC CTATCTGCAT CATTCTATTT CGAACTCTAA ATATATGTTC TATCAAAAAT 17640 ACTTGGAACA CACACATTAT AGGAATTAAC GTTTTTGAAA TTGAAAAATA TCCAAATAAA 17700 TAAACTATAA ACAACAAAAA TAGAACTATG TTATATTTCT TATTCAAAAC ATTCCTCCCT 17760 ATATATTTT GATTACCAAT CTTAATCATT TACAACTACA TTCTAACAAA CTATAAAAGC 17820 GTTTGTCGAA TTGAATTTAT CAAGCAAGCG ACCAACCAGT TCATCTTTTT TCTATTTCTG 17880 CCAATATGCG TGACAGGTAA TAATGATAGC CAAAAATAGC AAGAGCAAGC AAGACGATAA 17940 GAGCTCCTAC TCCCAAGCTG ATGGCAAGGA TAGGGGAGAG AGACTGAACC AAGAATATGC 18000 TCCCAATTAC AAGGGCCATC AGGATTGCAC TATAAATAAA CAATAAAACT ATGGCGACTA 18060 TGCCATTTGA ACGATTCACC AGGTCCGTAA TGCTACTCCA ATTGGTTGAC AGATTTTTAA 18120 CGTCCTTAAA GTAATGGTGG CAAGAAAGGA TGACACTGGC AATGATCCAG ACTACAAGAA 18180 GGTAAATCAT CGAAATGATG GGCAAGCCTA GATATAGAGA AAGACCAAGC AAAGTCAGAA 18240 CTGGTAAAAA GGACTGGACA GCATATATAA TCCAAAATTT CACTTTCACA TAACGAGCAA 18300 AGTCAAAGGG TAAACTCTTA AGAAAATCAA CATTTTCCCT CTCCAAGGAC AAGGCAATTG 18360 AATGCAGGCT GGTGATATTG TTATTGACAA CTGCTATAAA GAGAGCTATA AAAAACAAGG 18420 GTAACCAGTA TGGAGGATGA ATGTCTGGAA CTATCTGAGA ATCTCGGATT TTGGAAATCA 18480

693

GACCGATCAT	CATGAGATAA	GGAAGGAAAG	CACTTGTAAA	AAGCACTGTA	ATCACGCCAG	18540
TCCCCTGTCC	CAAGAGGGTG	AGGTGGTAGC	GTAAAACCAT	GCGAAAAAAT	CCCTTTTTAG	18600
TGGTTGAAAT	TCTCTCCTTG	CTGCGACGTT	CTTTTTTGAC	CTTCTCCTCA	CTATTAAGCA	18660
GGATCACGTC	ATAAAAACGA	GGAAGGACCT	TCTTTTTGGT	CAGATAAAGC	AGGAAGAGAG	18720
TTAGTCCTAT	CCAAGCGAGC	AGACCCACTA	AGGCTTCTGT	CGAAAAAGGC	TCCACTGCTA	18780
TTTTGTAAAA	GATATGAAGA	GGATAAAGGA	GAAATGGAAT	GTCTCTAACT	TTGTCAACAA	18840
TACTTCCAAA	AGTCGACTGA	AGAAAGAAGA	ТАААТАТТАА	AGGTATGAGA	ACTCCTATCC	18900
CAATCATCAC	ATTCGAAAAA	ATAGACTGAT	ACTTTCTGAA	GACCCTAGTT	TGAGCCAAGA	18960
AATGCACTGC	CACTACCATC	ACTAGAGCCA	CAGAGACAAA	TAATAAGGTC	AAGGACAGTA	19020
GCATCAAAGG	CAAACCCAGC	CATAGAGAAG	GAGCTAGCCT	AATGTAGAGG	ACCAGAAAAT	19080
AAGCTAGGAT	TGGTACAATT	CCAGTTAGAG	CTGGCAAAAG	GACAGACAGT	CCTTTAGCAA	19140
TTATAATCTC	TGATTCTTTA	AAGGCATAGG	GCCTATACGA	TACCAAATCC	TTACTCTCAT	19200
AAAAGACATT	GTAAAAGGCC	GTTAAAGAAG	TTGAAAAGGC	AATCACTAGT	AAAATAGCAA	19260
TCATCGAGCT	ААААТАААТА	GGTATTTCCT	CAAAAGGAAA	ATGAATGGCT	АТАТТАСТАА	19320
AACAGATGAT	CATCAAGAGA	CTGGAAAAAA	TGTAAGAACT	TAAGACTCTA	GCGGAAACAT	19380
TTACTTTTTT						19390

(2) INFORMATION FOR SEQ ID NO: 87:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 18436 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 87:

TATAAAGG 60	AGAAATTCAA	GGACGCAAGA	TATCAAGATT	TTACAGACTT	CCGAGCGTCG
AGGACTTC 120	TGAGCCAAAA	ATTACCATGT	TGGCATACTC	ACAATCTCCA	AAAATATGGC
CCAGAATT 180	GATCCTCTTT	ATGGCAAGTG	TCTTACTTTG	AAATGGCTTT	TCAACGACCC
TGATTTGA 240	GCTAGAAAGT	CTTGGGCACA	GGTTTAAAAT	TGCAGCCCAC	TTCCTTTTGG
CCACGGTG 300	TCCATTAGAT	TACCAGATAC	ATCAAAGTTT	AGAAACTGGA	TTCACTTTAA
AGGAAATG 360	CCTATTTTAT	ATAACTTATT	CAATTTGGCG	TTCTGCCATG	CCTACTCTGG
CAAGGAGG 420	TGCTTTGATG	ACCAGATCGG	CGTCACCCAT	AAACTGGATC	TTCGCGATAA

ርጥል አር አጥጥል ር	እ እ እ C እ መመረ እ C	AAGATCTTGA	694	N.C.C.N.C.N.C.M.C.M.	A CMC A CC A CM	400
						480
		AACTTTCAGG				540
ACTTGGAGAA	AAAAGGTTTC	GTTCGTCTCT	ACAAGGCTGT	CAATAACGAC	TACACAAACT	600
GGCAAGCAGT	TGGCGACCTT	GACTTTGCTA	ACGACCGTAC	TGCCTACATG	ATGGAATGTC	660
CTAATTTGGT	CTTTGTAGAG	GAACAACCTG	TCCTTCTCTA	CTGTCCACAA	GGATTGGATA	720
AGAAAGTTCT	AGACTACGAT	AATATCTTTC	CAAATATGTA	TAAGATCGGG	GCTTCCTTTG	780
ACCCTAAAAA	TGCCAAAATG	GTAGATGTGT	CTCAACTTCA	AAACATGGAT	TACGGTTTCG	840
AAGCCTATGC	AACTCAAGCC	TTCAACGCTC	CTGATGGGCG	TGCTCTAGCA	GTTAGCTGGC	900
TTGGTTTGCC	AGATGTTTCT	TACCCATCTG	ACCGTTTTGA	CCACCAAGGA	ACCTTCTCTT	960
TGGTCAAGGA	ACTCACTATC	AAAGACGACA	AGCTCTACCA	GTATCCAGTC	GCTGCTATTA	1020
AGGACCTTCG	TGCTTCTGAA	GAAGCCTTCT	CAAACCGTTC	CCAAACCAAG	AACACTTACG	1080
AACTTGAACT	CAACTTGGAA	GCTAATAGCC	AGAGCGAGAT	TGTCTTACTT	GCTGATAAAG	1140
AAGGTAAGGG	ACTTTCAATC	AACTTTGACC	TTGTAAACGG	TCAAGTAACA	GTGGATCGTA	1200
GCCAGGCTGG	AGAACAGTAT	GCCCAAGAAT	TTGGGACAAC	TCGTTCTTGC	CCTATCGAGA	1260
ATCAGGCTAC	TACTGCTACA	ATCTTCATCG	ATAACTCTGT	CTTTGAAATT	TTCATCAATA	1320
AAGGAGAAAA	AGTATTTTCT	GGTCGTGTCT	TCCCACATGC	GGACCAAAAT	GGTATCCTGA	1380
TTAAATCTGG	AAACCCAACT	GGAACTTACT	ATGAATTAGA	TTATGGTCGC	AAAACTAACT	1440
GATGTCGCCA	AACTTGCAGG	CGTCAGTCCT	ACTACCGTTT	CTCGGGTTAT	СААТААААА	1500
GGGTATCTAT	CTGAGAAAAC	CATCCAAAAA	GTCAATGAAG	CCATGCGAGA	ATTGGGCTAT	1560
AAACCCAACA	ACCTGGCTCG	TAGTCTGCAA	GGAAAATCAG	CTAAGTTAAT	CGGCTTGATT	1620
TTCCCCAATA	TTTCCAATGT	TTTCTATGCA	GAATTGATTG	ATAAATTGGA	ACACCAACTC	1680
TTCAAAAATG	GTTACAAGAC	CATCATCTGC	AACAGTGAAC	ATGATTCTGA	GAAGGAACGC	1740
GAATACATCG	AAATGTTGGA	AGCCAATCAG	GTGGACGGCA	TCATTTCTGG	TAGTCACAAC	1800
CTAGGAATCG	AAGACTACAA	TCGTGTGACA	GCGCCGATTA	TTTCCTTTGA	CCGAAACCTA	1860
TCGCCAGACA	TCCCTGTCGT	CTCCTCTGAC	AACTATGCTG	GTGGGGTTCT	TGCTGCCCAA	1920
ACCTTGGTCA	AGACAGGTGC	CCAGTCTATC	ATCATGATTA	CAGGGAATGA	CAATTCTAAT	1980
TCGCCAACCG	GACTGCGCCA	CGCTGGTTTT	GCATCCGTAC	TCCCAAAAGC	TCCTATTATC	2040
AATGTTTCCA	GTGACTTTTC	TCCCGTCAGA	AAAGAAATGG	AAATCAAGAA	TATCTTGACC	2100
CGGGAAAAAC	CAGATGCCAT	TTTTGCTTCG	GATGATTTGA	CAGCTATTCT	GGTCATTAAA	2160
ATCGCTCAAG	AATTGGGCAT	TTCTGTCCCA	AAAGAGCTCA	AGGTCATCGG	CTATGATGGG	2220

ACCTACTTTA TCGAAAATTA	CTACCCTCAA	TTGGCTACTA	TCAAGCAACC	TTTGGAAGAG	2280
ATTGCTTGTC TCACTATTGA	TCTTCTCTTG	CAAAAGATTG	AAGGCAAGGA	AGTCGCCACA	2340
ACTGGTTACT TCTTACCAGT	TACGCTATTA	CCAGGAAAAA	GTATTTAAAC	ACAAGAAAAC	2400
TCAGACCGAT TCGTCTGAGT	TTTTATGATC	TTAAATTTTC	GAGATAGCGC	TGGGCTGTCT	2460
CTAGGTTAAA GGTTTTATCT	GAGATGAGGC	GCTCTACTAG	GGGAGCAACT	TCAGATTCAC	2520
TAGCCCCAGC TAGGAGAGCT	AGGGATTTGG	CCTGTAGTTT	CATGTGGCCT	TGCTGGATGC	2580
CCGTACTTAC CAAGGCTTTG	AGGGCTGCAA	AATTTTGAGC	AAGACCGATG	GACACGATAA	2640
TCTGGGCTAA TTCTCTGGCA	GAAGGATTTC	CTAGTAGATC	ATGACTGAGA	ACTACACGTG	2700
GGTTGAGGCC GATAGAGCCA	CCCTTAGTCG	CTACAGGCAT	GGGCAGGGTC	ATCTCACCGA	2760
CCAATTCTTC TCTTTCAAGG	TCCAGCGTCC	AGCAGCTAAG	ACCTTGATAG	CGTCCATCTC	2820
GACTGGCAAA GGCATGGGCC	CCAGCTTCGA	TGGCACGCCA	GTCATTACCA	GTGGCAATCA	2880
AAATCGCATC AATACCATTA	AAAATTCCTT	TATTATGAGT	AGCAGCTCGG	TAAGGATCAG	2940
CCTGCGCAAA CTGACTAGCC	AACGCAATTT	TCTCCGCAAT	CTCTCGTCCT	TGATCCTTTT	3000
GGCGGCTCAA GTAGCGAAAG	GCGATGCGAC	AGCTTGCAGT	CACCAGAGAA	TCGGTCGCGT	3060
AGTTGGACAG GATTCCCATG	AGACTCTGTC	CCTGACTGAG	TTCTTCTAAG	ACTGGTTTCA	3120
AGGCTTCCAG CATGGTGTTG	AGCATATTGG	CACCCATGGC	TTCCTGGGTA	TCGACATGAA	3180
TATAAACAAC GAGAAAGTCT	GGTTCGCCTT	TTATCTGCTC	GACATGCAGA	TCACGCGCCC	3240
CACCTCCACG TTTAACGATA	GAAGGATAGG	CTTGATTGGC	AAGCTCCAAG	AGCTCCGCTT	3300
TCTTGCTGGC AATCTTCTCT	TGCGCTAGTT	TAGGATTAGC	AACTTGATAA	AGGGCTACCT	3360
GCCCAATCAT CTGTCGCTGA	TGGACTTGTG	CAGTAAAACC	ACCTGCACGC	TTGATGATTT	3420
TGCTGGCATA GCTGGCCGCC	GCAACCACAG	AGGGTTCTTC	TGTCACATAG	GGAACGGTGT	3480
ATTCCTGACC GTTGACAAGT	ACCTCCGGAA	CCAGTGAATA	AGGCAGAGAA	AAAGTTCCCA	3540
CTACATTCTC ACTCAGCTGG	TCTGCCACAG	TCACGCTCAT	CTGTTCATCC	TTCTCCAGAC	3600
TAGCTTGTCT CTCAGGACTA	AGGAGCGCCT	GAGCTTTTAA	CAGCTCGAGG	CGCTCTTGGT	3660
ATGATTTTTT AGAAAATCCA	TTCCAACTTA	TCTTCATTAT	TTTTCAACCT	TGCTATAACG	3720
GCGTTGGTGG TCGAGAATTT	CAACCAAGGC	AAAATCTTGA	TTTTCATAGC	CAGCAAACTG	3780
GGCAGAGTTA GTTTCATCCA	AGTTTACTTC	CTCAAAAAAG	ACCTTTTCAT	AGTCTGCAAC	3840
GGATAGGGCA GTTCGTTGGT	TGAGCTTGTT	CAAACGGTCT	TTATCCAAAT	AAGCTTCATA	3900
TCCTTCAACC AATTCACCAC	TGAAGAACTC	AGCCACAGCT	CCACTTCCGT	AACTATAAAG	3960

696 GGCGATTTTA TCCCCAGCTT TCAAGCTATC TGTATTTTCC AAGAGAGACA AAAGTCCAAG 4020 GAAAAGTGAA CCTGTGTAGA TATTCCCCAC CTTTTGACTG TAGAGAATAG ACTGGTCAAA 4080 ATGCTTTTGT AAGAGGTCTT TTTTCTCTTG AGGCAGGCTC TTATCCATGA TTTTTTTCAA 4140 GCCTTTTAGC GCTAATTTAG GATAAGGCAA GTGGAAACAA ACAGCCGCAA AATCATCCAA 4200 AGTAAGCTGG TAGCGTTTTT GATATTCAAG CCAAGTCGTT TTCAAACTAT CCAAGTATTG 4260 TTGGGTAGAA TAGACACCAT TTACATAAGG AGTTGTCGAG TAATTTGGTC GCCAGAAATC 4320 CATGATGTCA CGGGTCTGAG CTACATTGTC ATTATTAAAG GCCATCATGC GTGGATTTTG 4380 TGTAATCAAC ATAGCTACAC TTCCAGCACC TTGAGTTGGT TCTCCTGGAG TTTCAATACC 4440 GTATTTGGCA ATATCACTGG CAATGACCAA GACCTTGGAC TCCGGAGAAT TTTCCACATG 4500 CAATTTGGCA TAATGGAGGG CAGCAGTCGC TCCGTAGCAG GCTTCTTTAA TCTCGAAACT 4560 ACGAGCAAAG GGCTGGATGC CCAGCAAGCC ATGCACAAAG ACGGCCGCAG CCTTACTCTG 4620 GTCAATTCCT GACTCGGTCG CCACAATGAC CATGTCAACT TCTTGTCTTT CTTGCTCAGT 4680 TAAAATAGAG TCACTAGCAC TGGCCGCCAA GGTCACGATA TCCTCAGTTA GGGGCGCAAT 4740 ACTCAATTCC TTGAGTAAGA GTCCTTTACT TAATTTTTCA GGGTCAATTC CCCTCGCTTC 4800 TGCTAAGTCT TGTAATTTCA AGACATATTG ACTGGTCGCA AAACCAATCT TATCAATACC 4860 GATTGTCATA TTTACCTCTG TTTTATCATT CATGTAAAAA ATCGTTCTAT ACTATTTTAT 4920 CACAAATGGC AGTAAAAGAG AGAAAAAAGA CTTGATTCAC CAAATCAAGC CTCTTATTGG 4980 TCATCATTTT AAAGAATGAT TAGTTGCTAG AGAGTTCACC GATATAAGTA GCTTTATAAG 5040 CTCCATTCAC AGTTATCAGC TCCTGGAGGA TCAAATTTCC TGAGTAAGTC CTTCCCATCT 5100 CATCTACAAA TTTTTGATAA AACTGACTGG TCGGAATTTC TCTGACATCC TTATCAAATG 5160 TCTTATCAAG TGTTTTACTA ACCTTCTCAG CAATCAATTG ATGCTCTTGC CATCCACTTT 5220 GAAACTCTGA GCCCGAACTA GAAACCATGA CTGGGATAAA CAACAAGGTC AGTAGATTTA 5280 CAGACAATAA GGAAAGTAGT AGACTTCCTG CAAAACTAGA ATCCTAGTTC ATGATTGATA 5340 ATACCAGCAA TCAAATTCAT TCGTAATCCG AAGCGTTTAC GATGATTTCG ATAGGTTGTT 5400 GAAAACATTT TAAACGTTTT TACTTTGGCA AAGATGTTCT CAACCTTGCT TCTCTCCTTA 5460 GATAGCGCAT GGTTACAGGC TTTATCTTCA GCTGTTAGCG GCTTGAGTTT GCTGGATTTA 5520 CGTGGAGTTT GTGCTTGAGG ATATATCTTC ATGAGCCCTT GATAATCACT GTCAGCCAAG 5580 ATTTTACCAG CTTGTCCGAT ATTTCTGCAA CTCATTTTGA ACAACTTCAT ATCATGACTA 5640 TAGTTCACAG CGATATCCAA AGAAACAATT CTCCCTTGAC TTGTGACAAT CGCTTGAGCC 5700 TTCATAGCGT GAAATTTCTT TTTACCAGAA TCATTCGCTA ATTGTTTTTT AGGGCGATTG 5760

ATTTTTACTT	CCGTCACATC	AATCATTATC	GTGTCCTCAA	AGCTGAGAGG	AGTTCTTGAA	5820
ATCGTAACAC	CACTTTGAAC	AAGAGTTACT	TCAACCCATT	GGCTCCGACG	GATTAAGTTG	5880
CTTTCGTGGA	TACCAAAATC	AGCCGCAATT	TCTTCATAAG	TGCGGTATTC	TCGCACATAT	5940
AGAAAGCGTT	ATCAATTTAT	TTATCTCATT	TTTCAGAAAA	TTCTTTTATT	TCTGTAAAGT	6000
CTACGATACT	CGATGTGTTT	TTATATAATG	ATAGAGTCTG	AGAATCACTG	TTCCGCTAGC	6060
CATTCCAATA	GAGATTACCA	AAGCCAACAT	GACAACCAAG	GTCGCACTTG	CCAGTGCTTT	6120
ATTATAGTCC	CCTGTCACAA	AAAAGGCAGT	TGTTCGGTAG	GAGAGATAAC	CTGGAACCAG	6180
CGGTGCCAAA	ATGGCCAAGA	TAAAGACCAC	AGCAGGTGTC	TTATAAAGAA	TACTTAAAAT	6240
CTGGCTGACA	CAAGAACCAA	TAATGGCTGC	AATGAAGGTA	GCTACAATGA	CATTGGTCGG	6300
TTCCTTGAGC	AAGAGATAGA	TTAGCCAGAC	AGTCATGCCC	AAAATCCCTC	CAGGTAAGAG	6360
CATAGACCGT	TGCACATTGA	GTACGATTAA	AAAAGTGATA	ATGGCAAGAA	AACTTGCTAC	6420
TGCTTGTAAT	AAAAAGGTTG	TTAGTGTCAT	ATTAGTTCAT	CAATACCAAG	GCGACAGAAG	6480
TTCCTGCCCC	TAAAGCGAGG	GTAATGAGCA	GGGATTCAAA	CATCTTACTC	ATACCAGAGT	6540
TTATGTGGTT	GGTCATAATA	TCACGGACCG	CATTGGTCAA	GGCAATACCT	GGTACAAACG	6600
GCATGACCGC	ACCAGCTATA	ATCAAATCTG	CCGTTGAAGG	AAAACCTGTG	TAGCGAGCCC	6660
AAAACTGGGC	AATTATCCCA	AAGACAAAGG	CTCCAGCAAA	GGCTGTCACA	AAGGGAATTC	6720
GGATAAATTT	TTCCACATAG	AGGGAAAAGG	CAAAACCAAA	TAAGGTCGCC	ACTCCTGCCC	6780
CAAGTGCGTC	GTAGATATTT	CCGCTAAACA	TAACTGAAAA	GAAAGGAGCA	CTAAAGGTCG	6840
CAGCCAGAGT	TACCTGCAAC	TTAGTATAGG	GAAGGGGTTT	GGCTTGCAAG	GCCGTCAATT	6900
GCTTAAAGGC	TGTTTCTAAG	TCAATCTGCC	CCCCAACTAG	CTGACGAGAA	ATCTGGTTCA	6960
CATCGCAGAC	TTTTTCGATG	TTATAAGAAG	AGGAGGTCAC	GCGCTTCATG	CGCAAATATT	7020
GGTATTTTCA	ATAGAGAAAA	AGATAGCGGC	AGGCATGGCA	AGGACATTGC	AATCCACAAT	7080
CCCCTGCGAA	TGCGCGATTC	GAATCATGGT	ATCTTCTACA	CGATGGATTT	CTGAGCCACT	7140
TTTAAGGAGA	ATAGTCCCCG	CTAGCATAAT	CACATCAATG	ACGGCATTTA	ATTCTTTTGA	7200
TTCTTCCATG	CTTTCCTCCT	TTTATCAACT	CCCTCTATTC	TATCACAAAT	CCGGACTCAA	7260
ААААААТСТТ	TGCCATGAAA	TCATGACAAA	GATTGATTAC	TCATTTTGAT	TATCCATCTG	7320
CTTTTAAGGA	GTAGCTGAAG	TTGTTTTAGG	TTTGTAGATT	GAAATCTTGA	CTCTAGTCTT	7380
ATTGAGGTCT	ACCTTTTCAC	CTGCTCTAGG	ACTTTGTTCA	ACAACCATGC	CTTCTGCACT	7440
ACCTGCAGGC	GCTGTCGTCA	CTTCTACAAC	TTCTATATTA	GCTTCCTTAA	TCCCAACAAT	7500

			698			
TTGAATCAAA	TTGTTCTTAG	TAAACTCCAA	0,00	ATGTAACTCG	GCATGGCAAC	7560
ACTTGTAACT	TTTTTAGCTA	CTGTCAAGAC	AATTTGAGTA	GGTTTACTCA	CATCATAAGT	7620
CGTTCCGGCA	CCTGGACTTT	GTTTCATAAT	CGTTCCTGGT	TCGCTTTCGC	TGGACTCTTC	7680
TTCCTCTATC	TTAATCAAAT	TCTCAGGAAC	CTTCTTCTGC	TTGAGTTCTG	AGATTACTTC	7740
TGTAGAGTTC	CGTCCAATAT	AGTTCCCTAA	TTGAATCGTC	GTAGCTTTTT	TAGCTACTGT	7800
CAAAACAATT	TGAGTTGCCT	TGCTCAAGTC	ATAGGTCGTA	CCTTCTGGTA	GACTTTGCTT	7860
CAGGACCGTT	CCAGCCTCAC	TCTCATTCGA	CTCTTCTTCC	TCAATTTTAA	TCAAATTATC	7920
TGGAACTTTT	TTCTCTTTTA	ATTCCGCAAT	GACATCAGAG	GATTTCCGAC	CGACATAATT	7980
ACTAATTTGG	AAAGATTGCT	TGCCTGATGA	GACAACCAAA	TTGATTTTCG	TTCCTTCTTT	8040
TCGACCAGTT	CCAGCGCCAG	GATCTGTACG	GATAATCCGC	CCTTCTTCCA	CCTTTTCACT	8100
AGCCTCTGTC	TTCTCCTCAC	CAATCTCAAA	ATTGGCTTTT	TTGAGCGTTG	CCTTGGCCTC	8160
TGCAACTGTC	TGACCTGCCA	CATCTGGAAT	GGCAATGGTT	GCAGGAGTTC	TGGATAGTAT	8220
CCAAATAAGA	GAAGCTGCCA	CCAATACAAG	GCTGGCCAAC	AAAATCAGGT	AACGCATCTT	8280
AAATCTATGT	TTTTTCGGTG	CTTGTGGTTG	GTAAGTTTCC	TCTGTCACAG	CCTGGCTTGG	8340
GTTTTTGATT	GATTTGTGTT	CTGTTTGCGC	TTGAACCTTA	GGAATAGATG	TCAAGGTACT	8400
CTGAGAAACC	TTCGGCAAGG	TCTTGGTATC	TGCCTTGCTC	GTTTCATCAA	AGATTAACTT	8460
ACTTTCATTT	CTACGATTGT	AGGACAAGCT	ACTAGACAAG	TCCACATACA	TCTCTGAAAC	8520
CGAGCGGTAG	CGATTGGTCA	ACTTTTTAGC	AGTTGCCTTG	ATAATAACAT	TTTCTAAAGC	8580
CTGAGGTACA	GATGGATTTT	CTGCAATAAC	GGACGGCAGG	GGTTTCTGGA	AATGCTGGAG	8640
GGCAATGGTC	ACCGCGCTAT	CCCCGTCATA	AGGGATATGG	CCTGTCAGCA	TCTCATAGAA	8700
AATAATCCCC	ATGGCATAGA	TATCACTCTG	CACAGTCGCC	TTCGAACCAC	GCGCCTGCTC	8760
TGGTGACAAG	TAATGAACTG	AGCCCAACAT	CGAGTTAGTC	TGGGTCAGAC	TTGTCTCTGC	8820
AAAGGCTACA	GCAATCCCAA	AGTCTGTGAC	CTTGGCAGTC	CCATCTGGTG	TCAAGAGGAT	8880
ATTTTGAGGT	TTCAAGTCCC	TGTGAACAAT	TCCTCGAGTA	TGGGCCAAGC	GCATAGCCAA	8940
GAGAATTTGT	CCCATGATAC	GGACTGCTTC	TTCATTAGAA	AGAGGATAAT	GTTCCTTGAT	9000
ATAGCGTTTG	AGGTCCAGTC	CAGCCACATA	CTCCATAGCT	AGGTACTGTT	GACCGTCTTC	9060
CTCGCCAATA	TCTGTTATCC	GAACGATATG	AGGATGGTCT	AGATCTGCCA	TAGCTCTCGC	9120
TTCACGCTGA	AAACGAGCTA	CAGCTATCGG	GTCCGTCTGG	TAGTTGGTCC	TCAGAACCTT	9180
CACTGCCACT	TCTTCCCCAT	CTAAGATTAA	GTCTTTGGCT	AGGTAGACAT	CCGCCATACC	9240
TCCTCGACCA	ATCTGTTTGA	CAATCCGATA	GCGTCCGGCA	AAAATCTTGC	CGATTTGGAT	9300

CATTCTGCAT	CCTCCTCGTT	CATAGAAACA	AGGGCAACCG	TAATGTTGTC	TAAACCTCCT	9360
GCATTGTTAG	CAAAACGAAC	AAGTGTCTCC	GTTTTATCTG	CTAAAGGAAT	ATCACTGGTT	9420
ACAATATCAC	GAATCTCACT	GCCTGAAATC	ATGTTGGTCA	AGCCGTCACT	ATTGAGCAAG	9480
AGATAGTCAC	CTGACTCAAG	GATAACTGTC	CCAAAATCAG	GCTGAATTTC	ATCTTTTTGC	9540
CCAATAGACT	GGGTGATAAT	ATTTTTTGC	GGATGAGCTT	CTGCCTCTTC	TGGTGTCAAT	9600
TGACCAGCCT	TGAGCAATTC	ATTAACCAAG	GAATGATCGC	TCGTCAACTG	ATGGTATTCT	9660
TCTCCACGAA	TCAAGCCGAT	ACGCGAATCA	CCAATATGAG	CATAGATAGC	CTGATTATCA	9720
ATAATAGCAA	GGACTTCCAA	AGTAGTTCCC	ATGCCTCTGT	AAGCTTCATC	CTGACCAAGC	9780
TGGTGAATCT	TTTGATTTTC	AATTTCTAGG	TAATGGGCGA	ACCATTCACG	CACTTCATTG	9840
ACTGTATCGA	TCTGGGTATC	AACCCAAGCT	ACACCCAGGT	CTGTGACCGC	CATTTCACTA	9900
GCGATATTCC	CTGCGCGATG	ACCTCCCATC	CCATCAGCTA	AAATAATCAT	GGTACGTCCA	9960
GCTCTATTGA	CATAGTGGTT	GACATAGTCT	TGGTTATTTG	TTCGTTTCTG	ACCAACATCT	10020
GTTAATAATG	AAATTTCCAT	GTGTCAGTTC	CTTCCTAATC	CGATATCTTG	CGAAATTGAC	10080
TGATGAAGAA	TCCATCACTT	CCATACAATT	CAGGTGTAAT	GAGGATACAG	CCGTCTTTCA	10140
TGATATCCTT	ACATTCATGT	TCTAGTTTTA	CCTGCTCGAA	CTCGGGATGA	СТСТСТАААА	10200
AGGCCTTAAC	GACTTGAAAA	TTCTCCTCTG	AGACGATAGT	GCAGGTGCTA	TAAGTTATTA	10260
TACCACCTTT	GCCTAGTATT	TGACAAACAC	TACCTAATAT	TTCTAACTGA	ATTTCCTGCA	10320
AGGACGCGAA	ATCTGCCGTT	TCTTTATTGT	ATTTGATATC	TGGTTTTCGG	CGCAAAAGAC	10380
CGATTCCTGA	ACAAGGAGCA	TCCACCAAAA	TCTTATCAAA	GGAATCCTGG	тсааааааст	10440
CATGCACCTT	TCTGGCATCC	AATTTTTGAG	TTTGAACCCG	ATCTTCAACT	CCCAGACGTT	10500
GGGCATTTTC	TTGAATTAAA	TCCAACTTGT	GGTCGTACAA	GTCCAGAGCA	GTAACCTGAC	10560
CTGTCGTAAG	ATAAGAGGCT	ATATGGGCTG	TTTTCCCACC	TGGAGCCGCA	CAGGCATCAA	10620
GCACTCGCTC	ATCACCTTGT	AAATCAAGCG	TCGGAGCAAC	CAGCTGACTG	GACTCATCTT	10680
GGATGGTAAT	GGCTCCATCC	GCAAACAAAT	TATGCCCTGC	AAAATGCCCC	TGCTCCTTAA	10740
CCAGACCAGT	GGTTGCTAAA	AGGGAATTAT	TCGCCTCCAA	CAAGGCTTGG	ATTTCCTCTT	10800
TTCGACTTAG	GTCTGTTACA	CGAATACTGG	CTTTGTTTCG	CACTAACAGG	CTTTCAAAGA	10860
TGGCTTTTGC	TCTCTCCTCT	CCGTATTCTT	CCTTGAGTTT	GGCAACTAGC	CAAACTGGGA	10920
GAGAATAGGC	AATGGAGTCA	CGCTTGTTTT	TTCGCTTGAT	GCTAGCAATA	TCTGGCCAGC	10980
CTTCACGCAA	GATACGGCGA	AGGACAGCGT	TGACCAATTT	TTCACTGCCT	TTTTTACGGA	11040

			700			
GTTTGGCCAA	TTCCACTGCT	TCATTAACCA		TGGAATCTTG	TCCAAATAGC	11100
GGAGTTGGTA	GGCACTCATG	AGAAGAAGGA	CATAGAGCCA	GCTGTCTAAC	TGGTCTCTGT	11160
CTTCGATAAA	GTGGGATAGG	TACCATTCCA	GAGTCAGTTT	ACGGGCTACC	GTTCCATAGA	11220
CCAGCTCGGT	CACTAAGCCC	TTGTCTGCTG	CCAAAAGTTG	ACTTCCCTTT	AGATGCTTAT	11280
TTAAGGCGAT	ATTTGAATAT	GCTTGGTTCA	CAAAAACATC	CTCTAGCACT	GCTAGAGCTA	11340
AACTTCTAGC	CGTTTCTACT	TTAGTCACCA	AATCGTTCTC	CTACAGTCAA	TGTACGTCCA	11400
ACTCCGTTGA	GGAAGGAAGC	AATGTCCATC	TTAGGCTTAC	CAGCTGGCTG	CACTTGTTTG	11460
AGGGATAGAG	CCCCTTCAGC	CGTTGCGACA	ATCAATTCTT	TCTTGCCGAT	AGAGAGAATC	11520
TCACCTGGAT	TTCCCTGACC	TTCTACTGGT	AGGGCTTCAT	AAATCTTAAA	GCGGTCGCCC	11580
TTAAGGAAAG	TATGGGCAAC	AGGCCAGGGG	TTCATTCCAC	GAATTTGGTT	AAAGAGTTGA	11640
CGATTGGTTT	TGTTCCAGTC	CAGTTTTTCT	TCCTCTGGCT	TTATATTTGG	AGAGAAGGTA	11700
ACCTGACTCG	TATCCTGCGG	TTCAGGTTTG	ATATCACCAG	CAATATAGGC	AGGCAGAGTG	11760
TCCAAAAGCA	AATCACGACC	AACTAGCGCC	AATTTTTCAA	ACAAGGTGCC	AACATTGTCC	11820
TCATCTGTGA	TCGGAATGCT	GCGACGAGAA	ATCATATCTC	CTGCATCCAT	TTCCTTAACC	11880
ATTTCCATGA	TGGTCACACC	AGCTTCCTCA	TCCCCTTGAA	TCAAGGCATA	ATGGATAGGC	11940
GCACCACCAC	GGTGTCTAGG	AAGGAGGGAG	GCATGAACGT	TGACAGCAAA	GTCCATGCTA	12000
TCAAGGAGTT	TGCTTGGGAG	AAACTGCCCA	AAAGCAGCAG	TCACAATTCC	ATCTGCTCCT	12060
AGCTTCATAA	GATCTTCCAT	CTCTGGACTT	CCAGATAATT	TTTCAGGTTG	GTAGATAGAT	12120
AGTCCTGCTT	CCTTGGCAGC	CTGCTTGACT	GGGGTTTCTT	GGATAACTTT	TTTACGACCA	12180
ACAGCACGGT	CTGGCTGGGT	CACAACGGCT	AGAATTTCGT	AACGGTCATC	TGTCAAAAGT	12240
CCTTTTAAGA	CTGTTGCTGA	AAAGTCGGGG	GTCCCCATAA	AGATTAGTTT	TGTCATATCT	12300
TCTCCTTCTT	ATAAAAATTG	CTGCGGCTCA	TGGTCAATGC	TGAGACGGAG	CTCACTATTT	12360
TCCCGTTCTT	GAGTCAAGGC	TAAAACCTGG	TTGAGGGTCG	ACCCCAGCTC	ATCTTCTAAA	12420
CGGTATTTAA	TTAAAATCTG	GTAATGATAG	AGGTTGTGGG	TACGGGCAAT	CGGTTTTGGC	12480
GTTGGCCCCA	GAATGGGACT	GGTCTCTGAC	AAGCCTGACC	GCAAAATGTT	CATGACTTCA	12540
TAGGCACGTT	TGAAAACCTC	TTCTTCTTTC	TTGTGAGAAA	GGGTAATACC	AATCGTGAAA	12600
TAGTAAGGTG	GATAGCCGAG	TTGTCGTCTG	ATTCCCATTT	CATAGGCATA	AAAGCCTTCG	12660
TAATCTTGAT	CCTTGGCAAA	TCGAATAGCA	TAGTGCTGCG	GATTGTAGGA	CTGTATCAAG	12720
ACTTGACCTG	CCTTTTCAGC	CCGACCTGAT	CGACCTGCCA	CCTGAGTCAA	GAGCTGGAAG	12780
GTTCTCTCAG	AAGAACGGAA	ATCAGGCAGA	TTCAAGGCCG	TATCCGCATT	TAGAACTCCG	12840

ACTAGGGTAA	CATTGGGAAA	ATCCAAACCC	TTTGCAATCA	TCTGAGTACC	AAGTAAAATA	12900
TCCGCTTCCC	CTCGCCCAAA	CTGGTCAAGC	AAGGCTTGGT	GACTGCCTTT	CTTTCGAGTC	12960
GTATCCACAT	CCATCCTCAG	AATGCGAGCT	TGGGGAAAGA	GTTCTGCTAG	CTCATCATAA	13020
GCCTTCTGAG	TTCCCGTCCC	ATAGTAACGA	ATACTGCGGC	TCTTACAGTT	AGGACAGACC	13080
TGAGGAATAT	CCTTCGAGAA	ACCACAATAA	TGGCAGTTCA	TAGTCTTGGT	ATCCATATGC	13140
AAGGTCAGAG	AAATATCGCA	GTTGGGACAA	GTATCCACCG	TCCCACACTC	CCGACACATG	13200
ACAAAGCTAG	AATAACCACG	GCGATTGAGC	ATGAGAACCA	CCTGCTCTTT	TTTAACCAGA	13260
CGGTCTTGGA	TAGCCTCTAG	CAAAGGAGGC	GTAAAGTTTG	ACGTCTCATT	TTGTCCGATA	13320
TAGTCTCGAA	AGTCAATCAC	TTGAACCTCA	GGGATTGTAG	CCAAAGGATT	GGCACGTTGG	13380
GTTAGACGTA	AGTGTTGATA	GACGCCTTTG	CCAGCACGTG	CCCGGCTCTC	TAAGCTCGGC	13440
GTTGCAGATC	CAAGTACCAG	AGTTGCTTGA	TTATACTGAG	CCCGTAAAAT	AGCTACCTCT	13500
CTGGCATGGT	AACGGGGATT	GCTGTCCTGC	TTATAAGCCG	CTTCATGCTC	TTCATCAATA	13560
ATCATGACAC	CCAGATTTTT	CAGAGGAGCA	AAGATAGCAG	ATCTGGCACC	AACAACAACT	13620
TGGGCATCGC	CACGCTCCAC	CTTGCGCCAT	TCATCATACT	TTTCACCATT	GGATAATCCT	13680
GAGTGAAGAA	TGGCTACCTT	GTCCCCAAAA	CGTGCTATAA	AACGCTCGGT	CATCTGAGGA	13740
GTCAAGGAAA	TCTCAGGTAC	CAGCAAAATA	GCTGTCTTGC	CCTTATCCAG	GGCACCTTGG	13800
ATAATCTGCA	AGTAAACCTC	GGTCTTCCCA	CTTCCTGTAA	TCCCTTGAAG	TAGAAAGGGA	13860
GGTTGAGAAC	TGCCAATAGA	ACTCACAACC	GCATCACGCG	CCTGTCTTTG	TTCTGGATTT	13920
AACTCCAAAG	GTCTACTTGC	TTCAATTCCT	TCAAAATAAG	CAGCCGAGCG	TTGAACTTCC	13980
TTTTGGACTA	TGGTAACAGC	ACCTTGATCC	ACAAAGAAGT	TGACTTGCTC	TCGCGAGTAG	14040
GACTCTAACA	AGCTAGCCAA	GGAAGCGCTC	TCTGGATGAG	ACAGCAGATA	ATCTCTCAGT	14100
TCCAACTTTT	TCTTGGCACG	TGTAGAAATC	TCAACACCTT	CTAATTGAGC	ATGGTCAACC	14160
TCATACCAAG	ACTGGGTCTT	GACCTTCTTT	TGATCGACTG	CCTGATATTC	CAGACCAAGC	14220
AGGCCTTTTC	TAGTCAAACG	CATCATTTCA	GCTTGCTTGG	CAAGGTCTAG	TGAAGAAAAG	14280
GCTAGCGAAT	CTTCTGAACC	AAACAGGCGC	ACTCGTTCTT	CCTGACTCAA	GCCTTCCAGA	14340
GGATAGAGAA	TCTTGTCATA	GCTAGAATTC	AGAAACCCTG	GAAGCATGGC	CTTGAGGATA	14400
GAGATTTTGT	AGGAGAAGAC	AGATTTGCGT	AACTCCTCAG	CCAGCCAGAG	TTGTTCTGGC	14460
GTGAGAACAG	GAGAAAAATC	CAGCACCTCT	GCAATATCTT	TTAAATCTTG	CTCCATCTCT	14520
TCTCCATCTG	ATTGGGACTT	CAAACCAAGA	ACAATCCCTT	GAATCAGGCG	ATTACCCTTA	14580

			702			
CCAAAAGGCA	CATGAACCCG	CATCCCAACT	TCCAGCATTC	CCTCAAATTC	CTCCGGAATC	14640
CTGTAACTAT	AGGGCTGGTC	CGTCTGCATC	AAGGGCACAT	CTACGATAAT	CTTAGCTAGG	14700
GCCATCTTCT	CACCTCCTCC	TTGTCAGTAC	ATTCTTGCAA	TAGAAAAAAT	AAGATTGAGT	14760
CCCCCAACC	TTAAATTTTT	TCACCATCTT	CTTTTTCTTT	AGCAATTTGC	TCTTTGATTT	14820
TCTTTTCTTC	TTCTTCTTTG	CGGCGTTTTT	CTTCTTCGAT	ACGGCGACGC	ACTGCTTCAC	14880
GTTTTCCTTC	TGGATCTGGG	TGAATTGTAA	CGTTTCCTGA	TTCGATTTCT	TCTAAAGCGC	14940
GAAGAGTTGA	TTTTTCAGAC	TTGAAACCTT	GAGTTGCTGG	GGCACCTGCT	TCCAATTCGT	15000
GGGCACGTTT	TGCTTCCAAG	ATTACGAGTG	AATATTTTGA	AGGAACCTTG	TCGAGCAAGG	15060
TATCAATAGA	GGGTTTTAAC	ATCATTTGCT	TGTACCTATT	ТТСТАААТТТ	TATCGGGTAG	15120
TTGGAGATTT	TGGTAACATC	TCCTGATAGT	GACCAATGAC	ACGATCCACA	CAGAAGTGTT	15180
CTGCTTCAAT	CACACATTTG	ACACGTTCAG	CAGCTAGGGG	TACCTGATCG	TTGACAATCG	15240
CATAATCATA	CTCACGCATG	AGGGCAATTT	CTTCCTTGGC	CTTTTCGATT	CGTTGGGCAA	15300
TCACTTCTGC	ACTATCTGTT	CCACGACCTA	CCAAGCGATC	TTGCAATTCA	TCCAAATCTG	15360
GTGGTGTCAG	GAAGATAAAG	ACAGCATCTG	GAACCTTTTT	CTTGACCTGA	AGAGCACCCT	15420
GAACTTCAAT	TTCAAGGAAA	ACATCGATTC	CCTTGTCCAA	GGTTTCATTG	ACATAGGTCA	15480
GAGGAGTTCC	ATAGTAGTTA	CCGACATATT	CTGCGTATTC	CAACATCTGT	CCTTGACGAA	15540
TCAGCTCTTC	AAATTCTTCA	CGAGTACGGA	AGAAATAGTC	AACACCGTCC	ACTTCTCCAG	15600
GACGTTGTGC	GCGTGTCGTC	ATCGATACAG	AATATTGAAA	TTGGTTTTCA	GAACTCTCAA	15660
AAATCTCTCT	TCTAACCGTT	CCTTTTCCAA	CCCCTGAAGG	ACCAGAAAAA	ACGATTAGTA	15720
AGCCTCGGTC	TGCCATTGTG	TCTCCTTTTA	GTCAATCTGT	GAAATAACAT	TTCTCTAGAA	15780
TAATGGCAAA	AAGCCAGATT	ATCCTTTACA	GTCTTTCTAT	CTAGTGTAAC	AAAAAAGCAG	15840
TAATTTTTCA	ACTGCTCTTT	CTTATTTATT	TAGCATAATC	TACTGCACGA	AGCTCGCGAA	15900
TCACGGTTAC	CTTGATATTT	CCTGGATAAT	CGAGATTGTT	TTCAATTTTC	TTACGAACTT	15960
TGTGAGCCAA	GATTGTGACT	TTGTCGTCCT	TGATTTTTCC	TGGATTGACC	ATGATACGAA	16020
TTTCACGTCC	TGCTTGAAGG	GCAAAGCTAG	TTTGCACTCC	TTCAAAGCCG	TTAGCAATTT	16080
CTTCCAAATC	ATGGAGACGC	TTGATGTAGC	TTTCAAGAGA	CTCACTACGA	GCACCTGGAC	16140
GGGCTGCGCT	CAAGGCATCT	GCTGCAGCGA	CGATAACTGC	TATCACGCTC	TCAGCTTCAA	16200
CATCTCCGTG	GTGACTAGCA	ATCGTATTCA	CCACAACTGG	GGGTTCCTTG	TACTTACGGG	16260
CCAATTCCAT	ACCGATTTCA	ACGTGGCTAC	CTTCAACCTC	ATGGTCAATG	GCTTTCCCGA	16320
TATCGTGAAG	GAATCCAGCA	CGACGGGCAA	GAGCCGCATT	TTCACCAAGT	TCGCTCGCCA	16380

TGATACCAGC	CAACTTAGCA	ACCTCAATCG	AATGGCGCAA	AACATTTTGT	CCATATGAAG	16440
TACGGAACTG	CAAACGTCCC	ATAATCTTCA	TCAAGTCTGG	ATGAAGGTTT	GGCGCACCAA	16500
TTTCATAGGC	AGCAGCCTCA	CCGTATTCAC	GAATCTTATT	GTCAATCTCT	TGACGGTTTT	16560
TCTCAACCAA	CTCTTCGATA	CGAGCTGGAT	GTATACGACC	ATCTTTGAGC	AACATTTCCA	16620
TAGTCATACG	GGCAATCTCA	CGACGAATCG	GATCAAATCC	TGACAAGGTC	ACCACTTCTG	16680
GTGTATCGTC	GATAATCACA	TCGACCCCTG	TCAAACTTTC	AAAGGTACGA	ATGTTACGAC	16740
CTTCACGACC	AATAATGCGT	CCCTTCATAG	TATCGTCTGG	CAGATGAACT	GTTGAGTTTG	16800
TTGACTCCGC	TACATATTCA	CCAGCGATAC	GTTGCATAGC	TTGAACCAAG	ATGTCCTTGG	16860
CCATTTTGTC	AGAACGTTCC	TTGACCTCTT	GCTCAGCTTC	GCGAATGCGA	CTGGCAATCT	16920
CCCTGGTCAA	GTTTTCCTCT	GTCTGAGCCA	AGATAATATC	TCGTGCTTCT	GCCTGAGACA	16980
GCGCACCAAT	ACGCTCTAGT	TCTGCTTCTT	TTTGTCTTTC	GACTTCCTCT	AATTGCTCTT	17040
CACGCGCATC	AAGGTTTTTC	GCTCTATCAG	AAATACTTTG	TTCTTTTTGT	TCAAGTGTTT	17100
GTTCTTTACT	CGTCAAATTG	TCGTCCTTAC	GGTCAAGGCT	AGTAGCTCTC	TCTGTCAAAC	17160
GACTTTCGAT	TTGTTTGAGT	TCTTGACGTT	CTGATTTGAA	TTCAGCGTCC	ACTTCTTCAC	17220
GGTATTTTCT	GGCTTCTTCT	TTGGCCTCCA	ATAGTGCTTC	TTTTTTAAGA	GACTTGCTTT	17280
CACGTTTGGC	TTCATTAACA	AGTAAATCCG	CTTCACGCTC	AGCTTGTCCA	CGTAAATTAG	17340
TTGCTTCTTG	TTCAGCATTT	AAAAGCATCA	ACTCTGCAGC	TTCCTGAGAT	GATTTCATCT	17400
TAGCTGAGAT	GCTGACATAT	CCAATGACTA	AACCAATGAT	GACGGCAAAA	ACAGCAATCG	17460
CAAGCGACAT	GATTTCCATG	TTTTTACCTC	ATTTTATTGT	TATTCCGAAT	GACATACATT	17520
CTTTTACATT	СТАССАТААА	AAAGTGATTT	TCACAAACCT	AAAATAGAAT	ATGTTTTGAG	17580
GAATTTGGAA	CACATTTACC	AAAATAAACT	TGTTGTTTAG	AAATAGTAGT	TTAGTAGAGA	17640
CTTGAGAAAA	AGCCTACCTT	TCAATAGACT	TAGTAATGAT	CTTTAAAGGA	CAAGAAAGCC	17700
ACGCTATCTC	CATCCATCAT	ATAAATCAAG	CGATTTTCTG	CATCAATACG	CCGTGACCAG	17760
GCTCCTTGGT	AATCATATTT	GAGTGGTTCT	GGTTTACCTA	TTCCTGTAAA	GGGATCACGT	17820
TGAATATCCT	TGATTAGTTT	ATTGATTCTT	TTTAACGTTT	TCTTATCCTG	ATTTTGCCAG	17880
TAGCAATAAT	CTGCCCAGGC	ATCTTCTGTA	AACTTGAGCA	GCATTTCTTA	CTCCTCAATA	17940
ACATGGACCT	GAGTACTTCC	AGCACGAACT	TGAGCCATTC	CTCGCAAAAC	CTTATCAGAA	18000
AGTTCCTTAT	TTTGAGCAAT	TCTCAGGGTT	TCTTGGATAC	TATCCCACTC	ACTCTTTGAA	18060
AGGACTACAA	TGTCCTCATC	TGGATTTTTA	TTGACCACCG	TCAAAGGCTC	AAATTCATCA	18120

			704			
TTTACCTTCT	TCATGTAGTC	CTTTAAATGA	TTTCGGAATG	TTGAGTAAAG	GACTGCTTCC	18180
ATAACCATAC	CTCGTTTTAG	CTCTTTTCCA	CTATTATACA	CGAAAAGAAA	GAAATTGTCA	18240
GGAACTTGTA	CAAGATTTTC	TTTTCTATCT	ATTTATACTC	AATGAAAATC	AAAGAGCAAA	18300
CTAGGAAACT	AGCCGCAGGC	TGTACTTGAG	TACGGCAAGG	CGACGTTGAC	GCGATTTGAA	18360
TTTGATTTTC	GAAGAGTATT	ATTCGTAAAA	AATCTCAAAA	AGCCTACCTT	TCGGTAGACT	18420
TAGTTTGTTT	CTATTC					18436

(2) INFORMATION FOR SEQ ID NO: 88:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 7001 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 88:

ACGTAGAAAA	ACTATTTCTA	TCACAGATAA	TATTCCGTAT	GTTGTTGGAG	GTATTGAAAT	60
AAACGTCCTA	GGTATCTTTC	TCAGTCTATG	TGACTTACAA	GGGAAAACTC	TTTTCGAGAC	120
AGAAATTTTG	AATGAAGATT	ATCCTATTTC	AGAAATCAAT	TCCACCATTA	CCAATATGAT	180
AAAAACAGCT	ATAGAGTACG	TCCCTTTGGA	AACAAAATTA	CTTGGATTTG	GCTTATCAAT	240
ACCTGGACAT	TATAACAAAG	ACTCCGGAAG	TATCATTACA	AACAACCCCA	TATGGGAATC	300
TTTTAATTTA	TTAAATGTAA	TTAAAAGATT	CAATTTTCCT	TTTATTGTAA	AAAATAATAT	360
CGATTGTATG	GCTATAGGAC	AATACCTTTT	TAATCCACAC	AATACCCCCG	ATAACTTTAT	420
TTTCCTACAC	GCTGGATTAG	GTATTTACAC	TTCCTTTTTC	ACAAAAGAAA	AAATAGGAGC	480
CTCTAAAAAT	CCTTATATCG	GAGAAATTGG	ACACACCATT	GTCGAATTGA	ATGGGCAATA	540
TTGTGAATGC	GGAAAAAAAG	GTTGTTTACA	AACATATATT	TCGGATGCTT	GGTTAATCAA	600
ACACGCCCAA	ТТАТТАТТТА	AAAATTCCCA	ACTAACTGTA	CTAAAAAGCC	TTGTAAAGAC	660
TGAAAAAGAC	ATTCATTTAG	ACACCCTTTT	AACGGCTTAT	AATTTAGGCG	ACTCCGCTTT	720
ACGTCAACAA	ATTGATAAAG	GAGTCAATTT	ATTAGCCACT	TCTATTGCAA	ATCTCCTCCT	780
CATCAATCCT	GCTGATAAAA	TCTATATCAA	CAGTCAATTG	CTTAATTATC	AACCTTTCAC	840
TCATGAAGTC	AGGGATAAAA	TCCAAGACCA	GCTCCACTTC	GTTCCCTTTA	CTCGTAATAT	900
AGAAATTGAA	ATTTTACCTT	ACAACAAACA	TCGTGGAAGT	ATAGGAGCTT	GTGCATTAGC	960
TATCGTCGCT	TTTTTCATAG	AACATAGCAA	TGTATTACAA	GATATTATTT	CACCTTAATA	1020
TATTAGAAAT	CTATAGACCT	GTTTAAATCA	ACTATAACCT	GTAGTAGATA	TCTCGTATTT	1080

AGACAATATG	AAAACAAGAC	GACTTCCATA	TAGGAAACCG	CCTTCTCGCT	ATGTTGAGTG	1140
АТТАТАТТА	AAATAACTTT	TCTTCTAGCT	GCATTTTATT	АТТАТААААА	CATTCATCAT	1200
AACCCCCAGA	ACTTAAATAA	CAATTTTTAT	TCAAGATACA	TACTCCTAGA	АТАААСТТТА	1260
TATGAAATTC	TCATTTTTGT	ТТТТАСААТТ	CTCCTTAGTT	AAATCTTGTT	TAATATATGT	1320
ГТТАСАТАТА	GTATTTAGCG	CCACATAGTA	CTGAACTCTC	TCCAAAAACG	GTTATTCCTC	1380
TTTGAATAGG	GCGTTATCAC	AAGAAAAGCA	TCTCCACGTT	TCAACTTCAT	ATGGCTCAAA	1440
AACAATCAAT	TGATGCTAAA	ACCTGTACCT	AGATGTTTCG	GTTCATAAAA	CCATGAAACT	1500
GTAAAAGTGG	ATGAAATTGA	TAGCGATAGT	CAAATCAAGA	GGCATCATAA	CTCTAAAAAG	1560
TCACAATATA	TAAGTTCATC	CTCGGAAAAA	TATCATTCTA	ATTGTTGAAA	TGCCTACATG	1620
AAAAGAAACG	TCAAATGCTC	ATGAAACAAC	GAATACAGGT	АТСААААСТА	TGACAAAACA	1680
AATCCCTAAA	TTTACTAAAG	ACACTGCTCA	ACTTTACACC	TGTAAATGGT	TGTTGTATAA	1740
FAAAGTTACA	AAGATGTACG	ACCACACTGT	TGTAAATCAT	AGTGTTCGCG	AATATATTAC	1800
rgatagcatt	TCTACAAATA	CAAGTAAAGA	GAGCGGATGA	GATTCAAACG	AAATATGTCA	1860
GTGCTTTGGC	ATTCCTAGCC	TTCATATCAT	TTAAAGAATT	CTATAGACAA	AATTTTTTCC	1920
AATACAGACA	CTCGTAACAA	CTGCTTCATT	TTTCTACCAA	CATATTTAGG	AACAGGATAA	1980
GATACAAGAG	TATTAATCCA	TAGCTCAGTT	CTATACCAAT	CTAAGACAAA	TAAGCTAAAA	2040
AAACGATTGA	TAATAAGCAA	ATAGATTCCA	AATTTTCTCT	ATCTGCTCAT	TTTAATAAAC	2100
AATACTAGTG	TAACTATCCT	TCCAGTCAGA	AGCTTGTCAA	ATCACACCGA	AAATTCTTCT	2160
AAAATTTATC	TCGTTAGGCA	ATCAAGCAAA	AACTCGACGA	TAGTACAAAC	ATTATCATAC	2220
AGGATTGACT	TCCTAAATTA	TATACTTTAG	TAAGGTTTTC	GGATAAGAAA	AAAGGTTCAT	2280
TTACATTTC	TAAACATTCT	TTTCTAAGAT	GAAAAACAGA	ATTTTTCGAT	TGTGATTTAA	2340
AGCAACAAGA	AGATTTTCAG	TATCATCCTA	TAGATACGAG	CTAATTAAGA	AAAACTACAT	2400
TTTTGAATAT	АААСТАСААТ	AATATAAACT	AAATTTTATA	GGAGGAAGAC	AATGGATTGG	2460
TACGATTATA	TGATACAGGC	ATCCAAACAA	TCACAATTCA	ACGCAAGCCA	TTGGTTTCGC	2520
TATTTGCGAA	AAGTTATTTT	TGAAGACTAT	TCTTATTTAA	CAAACCAAGA	TGTAGAAAAG	2580
TTGCTAGACT	CCAAAGAACT	AACCCGTTTT	САААААТТА	GCTTGAAGTA	TGCCTTTCAA	2640
GAGCATACTC	CAACTCATAA	ATATGTGATT	TCATTAAATA	AACCTGCTAA	GTTAACCAAT	2700
GTTCAAAAAT	TGATGGAGAA	ATACAAACAT	GGATAAAATG	AAACCGGTCT	TCCAAGCCCT	2760
AATAAGGAA	TTAATTCAGG	AAAATCTGAC	ТТТААСААТТ	ATCTGTGTCG	GTGGTTATGT	2820

			706			
CTTAGAATAT	CATGGTTTAC	GTGCCACACA		GCTTTTATGG	CTCTATAATA	2880
TTTGTAGTGG	GTAAATCCCC	TATGGATATT	ATGGAGCCTA	TTTTTGTGTA	GAAAAAAGT	2940
CCCATATGAC	CTATAATGAA	AAGCGACAAA	ACAACTCATT	AGAAAGAATC	ATATGGAACA	3000
ATTACATTTT	ATCACAAAAT	TACTAGACAT	TAAAGACCCT	AATATCCAGA	TTTTAGACAT	3060
CATCAATAAG	GATACACACA	AGGAAATCAT	CGCCAAACTG	GACTACGACG	CCCCATCTTG	3120
CCCTGAGTGC	GGAAACCAAT	TGAAGAAATA	TGACTTTCAA	AAACCGTCTA	AGATCCCTTA	3180
CCTCGAAACA	ACTGGTATGC	CTTCTAGAAT	TCTCCTTAGA	AAACGCCGTT	TCAAGTGCTA	3240
TCACTGTTCA	AAAATGATGG	TCGCTGAAAC	TTCTATCGTC	AAGAAGAATC	ATCAAATTCC	3300
TCGTATTATC	AACCAAAAAA	TTGCGCAAAA	GTTGATTGAG	AAGATTTCTA	TGACCGATAT	3360
TGCTCATCAG	CTGGCCATTT	CAACTTCAAC	TGTCATTCGC	AAGCTCAATG	ATTCTCACTT	3420
TGAGCATGAT	TTTTCGCGTC	TTCCTGAGAT	TATGTCCTGG	GACGTTGAAA	CAGTCCGGGG	3480
AGTGACTGTT	TCAATCGGGA	GATGGAGATG	AGCTTTATTG	CGCAAGATTT	TGAAAAGCTC	3540
GATATCATCA	CTGTTCTTGA	AGGTAGAACA	CAAGCTGTCA	TCCGAGATCA	CTTTCTTAAA	3600
TATGATAGAG	CCGTCCGATG	TCGCGTCAAA	ATTATTACTA	TGGATATGTT	TAGTCCTTAC	3660
TATGACTTAG	CTAGACAACT	TTTCCCGTGT	GCTAAAATCG	TTCTTGATCG	CTTTCACATT	3720
GTACAACATC	TTAGCCGTGC	TATGAGTCGT	GTGCGTGTCC	AAATCATGAA	TCAGTTTCAT	3780
CGAAAATCCC	ATGAATACAA	GGCTATCAAG	CGCTACTGGA	AACTCATTCA	ACAGGATAGC	3840
CGTAAACTCA	GCGATAAACA	TTTTTATCGC	CCTACTTTTC	GTATGCATTT	AACCAATAAA	3900
GAGATTTTAG	ACAAGCTTTT	GAGCTATTCA	CAAGACTTGA	AACATCACTA	TCAGCTCTAT	3960
CAACTCTTGC	TGTTTCACTT	TCAGAATAAG	GAACCGGAGA	AATTTTTCGA	ACTTATCGAG	4020
GACAATCTTA	AGCAGGTTCA	TCCTATTTTT	CAGACTGTCT	TTAAAACCTT	CCTCAAAGAT	4080
AAAGAAAAGG	TTATCAACGC	CCTTCAACTA	CACTATTCTA	ATGCCAAACT	GGAAGCGACC	4140
AATAATCTCA	TCAAACTTAT	CAAGCGCAAT	GCCTTTGGTT	TTCGAAACTT	TGAAAACTTC	4200
AAAAAACGGA	TTTTTATCGC	TCTGAATATC	AAAAAAGAAA	GGACAAAATT	TGTCCTTTCT	4260
CGAGCTTAGC	TTTTTTTCAA	CCCACTACAG	TTGACAAAGA	GCCGGAAAAA	GGAACAGCCT	4320
TAGCTTTCCT	TTCATTTCTT	TTTATTTCCC	TCGTAGTAAA	CGTGCTAGCT	TCCACAAAAC	4380
AAACAGGATT	CCCAGAAATG	CCAGTACCAC	TAGCCCACGG	TACAACCATT	GAGAGGTTGC	4440
AACACGCGAT	ACAGATTGTC	CTTCTTTCGT	AAAAGCAACC	CTCGCAACTG	CAGCTGTTTG	4500
TGGATCTGAT	TTTTGATAAA	CAGCGACTCG	TTCAAAATTC	ACTAATAAGC	GTTTATTAAA	4560
GGTAGGAATC	GGATCGCAGG	TTATCAAGGT	CATGATATTT	TTAGAGCTAA	CCGATTCTAA	4620

TTTTTCCCAT	TCCGACGGTA	АААТААТСТС	TGTGTCCATC	ATCTGATATT	CTACAATTTC	4680
CTGGCCATTA	ТСАТААТААА	GAGCATCTCC	AACTTTTAGC	TGATCCAAAT	GGCGGAAAAA	4740
GACATGGCTT	GGCTCTGCAC	GGTGCCCAGC	AATCACTGAG	CGAATCCCTG	TACCATCCAG	4800
AGGCAGCGGT	GTACCATCCA	CATGAGCCAA	GCCCATCCCT	AAATGATGAT	AATCTGCTCC	4860
CAAATAAACC	GGCTCCATGA	TTTCCAAACT	TGGAATAGAC	AAGTAACCAT	AGACTGCATC	4920
AGGGTCGTCA	GACACTTGGT	AATTGACCTC	ATATCCCTCC	GCCAAAAAAG	GATCTACAAT	4980
GCGATTTTGC	GAAGCCAAGC	GTTGATTGTA	GGCGAGAGAA	TGGTTCTGTT	GTTCTTGGTA	5040
CATTTCAGTT	GTCATGGATT	TCACAAATGT	AGCATGACCT	TTCACCTGTC	CAAGAGACTG	5100
CAACACCATC	TGTCCAAAAC	AATAAATAGG	AATCAAACAG	GCTACCAACA	TCAACAAGTA	5160
TCCCAATAAG	GCTCGTAGTT	TAGTCCTTGA	CATGACGCCC	CTCCAATTGC	TTTTCTAGTC	5220
CTTTGACAAT	CCGTCGATTA	CGATACACGC	GATACAGCAA	GAGAAGGATG	ACCGCCATCG	5280
CTCCTAGTAA	TAACCACAAC	CAGAATTGCC	CACGCTCTCT	CACCGCTCGA	TTCCGCTCTG	5340
CAATTGGTGC	CGTATACGGA	ATCCGCTTCC	CACGTACCAA	CAGACGATGA	CTGTTAATCA	5400
TATACGGTGT	ACAAGTCAAC	AAGGTCGCAT	AATCTTCCCC	ATGTTGAATC	AAGACAGGCT	5460
CAAAGTCATT	CGGCTCCACC	GTCACTATCT	GATCCACTTG	GTAGGCCAAC	ACCTGATCTA	5520
AAACGTGAAG	ATAAAAGATA	TCCCCTTTTT	TCATCTTATC	CAATTGACTG	AACAATTCTG	5580
CCGTTGGCAA	TCCTCTGTGA	GCAGTGATCA	CTGTATGGGT	ATTTTCACCT	CCAACAGGCA	5640
GCGAAGCCCC	TTCTAACAGC	CCTGCCCCTT	TCTGAAGAAT	GTCCTCACTC	GTTCCGACAT	5700
ACATCGGAAT	TTCCTGATCA	ATCGCAGGAA	TTTCCACATA	GCCAATCCGC	TCATGGACCT	5760
TTAGCATATT	GGCATATTCT	GAGACGCCTT	TCTTTTTCTC	TTGCTCTGTA	AAAGGATCAA	5820
GAATTTCAGA	TGGTTTCAAG	GTCGCATTGA	AGGCTTGAGC	CAAGCGCCAA	CGCTCCTCAA	5880
GTTCTGCCTT	ATCCATCTGG	GAAACCGTCT	CATCAAACTC	TTTAATAACC	TCGTTTGACT	5940
CAATACGATA	ATAATAACGA	GACACCAATG	GATATATCGC	AACGGCGAAT	CCTACTAAGA	6000
AAATCAGAAG	AAGGATCAGC	GGATGTTTCT	TCTTTTTTGT	GCCTTTTTTT	CGTGAACGTC	6060
TACTGTTGTC	CATCCTCCAC	CTTCACTTCC	TTCCTTGCTG	CTTTCAGCGC	CTTCAAAGCC	6120
TTTTCCGGTT	GTTTTTTCTT	CTTGCGCAAG	CGTCGAATAA	TCCATAAAAG	AATCACAATC	6180
AAACCAACTG	CCACATAAAA	CAGGTAGCGA	TAGAGATGAC	TGAGTTTGTT	TGCTGCAATA	6240
AATTCTTCCT	CAACCTCTGC	TACGTACGGT	ATCCGATGCC	CCCGAACCAA	TAGACGATGG	6300
GTATTGATCA	TGTATGGCGT	ACAAGTCAGC	AAGGTCACAT	AATCATGACC	TGGTACAATC	6360

			708			
AATAAATCAT	CAAAGTTCGT	CGGCTCAATC	ACCTTTACTT	GATCCACTTG	ATAGGCCATC	6420
ACTTCCTTGA	TATTGTGCAC	ATAAAACTTA	TCCCCAACTT	TAAGTTTGGT	CAAATCCGTA	6480
AACATCTTAG	CTGTTGGCAA	ACCTGTATGT	GCCGTAATCA	CCGCATGGGT	CGAATTGCCT	6540
CCGATCGGCA	GAGAAGTTCC	CTCTAGATGC	CCAGCCCCTT	GCTGCAATAC	CTCTTCAGCA	6600
GTACCAGCAT	AAACCGGCAA	ATCCACGTCA	ATAACGGGGA	TTTCCACATG	CCCCATCCGC	6660
TCATGGATTT	CTAACATACG	TGCATACTCT	GCTCGCCCTT	TTTTCTTCAT	TTCTTCCGAC	6720
CAAGGATCGC	CACTCACTAC	ATTATTCAAA	GAGTCATTGA	AGGCTTGTGC	CAATTTCATT	6780
CGTTCATCAA	TGTCAGCCTC	ATCCAACGTT	GCTTTTTCCT	TATCAAAGTC	AGCAATTTGT	6840
TGATTTGATT	CCACTCGATA	ATACAAGCGA	GACACCAGCG	GATACGCCAT	TACCGCCATT	6900
CCAATGAAAA	ATACCACTCC	TAATAGGAGA	TTATTTCGTT	TTTGCTTTTT	TGTTTTTACC	6960
ATTTTTATCA	GCATCCCTTT	ATCTTCAAAC	TTCAGGGTAT	С		7001
(2) INFORMA	ATION FOR SE	EO TD NO: 89) .			

(2) INFORMATION FOR SEQ ID NO: 89:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10411 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 89:

GAGGGAGCTT	AAGAAGTTAC	CACCGTCCTC	TAGCGCCTTA	TCCGCATCAA	AGTTAAGGTT	60
GATATTTTTA	AAACTGTCGC	CAGCTTGTGA	TACGATGCTT	TGTTTAAGGT	CATTTAGGGT	120
TTTAGTGAAA	TCTGCATTGC	TGAGGATATC	ACTCTTTGAG	AGATTCAAGG	CAAAATTGAT	180
GATGATATTG	ATCTGGTTTC	CTGTTATGAC	CTGATCAAGT	TTGTAATTTT	TTAAGGTATC	240
TTCAACAATC	TTGCGGATAT	CTTCTTCTGT	CAGATTTCCC	TTACTTTCTT	TAGCTTTGGC	300
GAGTCCTGAC	TTGATATCAG	CTAGGGCAAC	GTTTAATTTA	TTAGCATCAT	AGCCTGAT TT	360
GTCCTTGTTT	TCAGCATTGA	TATCTGACAA	AGCTTTTAGC	TCTTCTTGAG	CCAAATCTTT	420
ATTAGCTTGT	GGCACCTTGG	CTCCATTAGC	CTCTAGCGAA	TAGTAAATCC	CTGCTAAAGC	480
ACTTTCTCCT	GTAACTGGAA	TAGGGGCTGC	TACAGTGATT	TTGGCATGTT	CCATACCCAG	540
CGTTACTGCT	GCGTTTCGGT	ACATATCCTG	AGTCACCTTA	GTGATATTTT	CTGGTGTTTC	600
AATCTTGACC	TCAAGTGGCG	ATTTGTCACC	TAGCTTTTGA	ATCTTGGCTG	ATGAATACAA	660
CTGTAAGCTA	GAGTCATTGG	CCACATTCAT	GATTTTAGAA	TAAACATCAG	GTGTCATGGT	720
CTTGAGTTCT	TTGGTATCTG	TTGAGGCATT	GTAGCCCAGT	TTTTTAAGAG	TTTGATTTTT	780

TTGGTCTTCA	GATAGGGAGG	AACCTAGGAC	ATATTCAGGT	TGGACATAGG	TTTCATCGAT	840
AACTTTTTGA	ACATCTGTTG	CTGCATGGAC	GCTATTCATA	GCTGTTACTG	CCCACAAGAT	900
CGCAGCGCTA	GTCAGAAAGA	GTTTCTTTCT	CATAGGGAAT	TTCCTCCTTT	ACTTCTTTAG	960
AGTAATATAT	CTATCTTAAA	GAAAACTTAT	AACAAAAACA	CCTGGTCTAG	CCAGATGTTG	1020
AAAAGAGAGT	GAAACATTTG	ATGATGTAAA	GGTTAAGTCG	TACCTGTCTA	GAATAATAAT	1080
AGTTTCCTCC	ATTTACATAG	AGTTCAGCAC	CGTGAAAAAT	GGAAATGGGG	TGAATATAAC	1140
TATAAGTCTT	TCCAGTCCTA	TTACCAAGCA	AGGGGGCAAC	AGTCTCACGA	GAGTACTGTT	1200
TGGCTAGAGC	CAGGGTATTT	TCCTTGCCAT	TTTGGGCGAT	AAAATCGATA	TAGGCAGGTC	1260
CAAAATTATA	GGCTTGAACA	GCTGTCCAGA	TATCTACCCC	CTTCTTCTGC	GCCAGATAGA	1320
GATTGCCTGT	CAGAGTTTGA	ATGCCTTGCC	GAATGCTAGA	GGCATTATCA	TTGATGGTGT	1380
TGGTGGAACC	ACTTGCAGAC	TCACTAGACT	GCATAACATC	GCCTTCTTTT	CCTTTTGTTT	1440
CAGTATAAAT	CATAGCAAGC	ACAAGCTCTT	CGTTTGCTGG	GGTGTCTTGT	TCACTCAATA	1500
TTTCTCGCAC	CATGGGTTGA	TAGGTCATGA	CTTGTTTGAC	ATCTTGATGA	ACGCGGTAAG	1560
CTTTATAGCC	AGCAAAAAGG	AAGACTGCTA	GTACAAGCAC	TCTTCGAATT	CGTTTAAACA	1620
TTATTTACTT	TGGATATCCT	CGATATTTTT	GATTAAGATA	GAGTAGGTTC	CATTTTCGTT	1680
TTGGATAAAC	TCAACAGACT	CGGCGTCTTG	ATAGACGTTA	TTGGGAACGA	TGAGCTCAAT	1740
TCCATTTGAT	AAGGAGAGTT	TTTGGTTTTC	AAATTTCTTT	AATTGGCGAC	TGGCATCAAT	1800
TTCATCAAAT	TGAACAGGTT	CTGGTACGGC	TTCTTTGACT	TGGTCAATAA	AGCTCAAACG	1860
AGCCGTCAGA	TTGTTGTCAA	AAAGGTCATT	AGCCAATTTC	TCAGGTGACA	ATTCATTGCT	1920
TTCTTCTAGG	TTGTTGAAAA	TAGCTGATTT	GACCTTGGAT	TGAAATTGAA	AATCATCTGT	1980
GTTAAAAGAT	TTAGCAATTC	TCTGGGCTGT	TTTTTCCAGT	TCCTTGATAG	ATTTTTTAGG	2040
AGAAATCTTA	GGAGCGACAG	CAAGAAGATT	ATCTGAAAAA	TAGTTCAAAA	AAGTCCCGTT	2100
GTACTTGATT	CGTTTTTCAA	TCAGGTGATA	CTTGCTACTC	TGAAGATTGA	CCACCAAGGC	2160
CTCATCAGCT	CCTGTTCCAA	ATCCAGGCAG	GTTATTCTGA	GTTAGCTTGA	TTGGATTATC	2220
AACTTCTCCT	CCGAGGTGGG	TCAAGGTCTC	CCGCAGGGCA	ATTCGCAAGA	AAGCGAAATG	2280
TTCTACACCT	TCTTTAGAAA	ATTGCACAAA	AATCAAGTCA	TTGGTCTTGA	GATTTTCAGA	2340
AATGCTAAAC	TCCTCTTTCC	AGAGATTAGC	CAGCGTTACT	GATGTCTCCA	ACAAATCGTC	2400
TGTAATATGA	TTGAAGAAGG	GATTTTCTTC	TTCGAAAATC	CCAGTCTTGG	CTTCATCTGA	2460
ATACACATGT	ТСААТТТТТТ	TACGCAGGTA	TTCTTCGATT	TTTGGAGTAA	TATTGAGAAA	2520

		740			
CTTATCTGCT AAGAACAGTT	CGGTATCATC	710 CGGACTGAAC	TGGTGAATAA	TGGCTTTCTT	2580
ААТАТАААТС ТССАТАААА	TTTTAGTCCT	CGTATAATGG	GAAGGCATCT	GTCAATTCTT	2640
TGACTGCACT TCTCACTTCT	TCTAATACAG	CCTCATTTTC	TGAATTCTTA	AGGGTTTTAA	2700
TGATGAGTTC AGCCACTTTC	G CGACTTTCTT	CTTCACCAAA	TCCACGTGCA	GTAATGGCTG	2760
CTGCTCCGAT ACGAATCCCA	CTTGTCTTGA	ATGGTGACAA	GCTTTCGTAA	GGGATTGAGT	2820
TTTTATTTAA GGTAATATTC	ACTTCATCCA	ACAAGTTTTG	AGCAACTTTG	CCGTTTTCTA	2880
CAACTTTAGT CACATCAACA	AGGAAGAGAT	GGTTTTCAGT	TCCACCTGAA	ATAATACGGA	2940
AATCAGGGTC TTGCAAGAAC	ACATCTGCCA	TAGCCTTGCT	GTTCTTAATT	ACATTGGCAG	3000
CATATTCCTT GAAGGCTGGA	TCCAAAACTT	CTTTGAAGGA	AACTGCCTTA	GCCGCCACAA	3060
CATGCTCTAA AGGACCGCCC	TGAATACCTG	GGAAAATAGC	TGAATTGATT	TTTTTAGCAA	3120
GTTCTTCGTC ATTGGTCAAA	ATCAAACCAC	CACGAGGTCC	ACGAAGGGTT	TTGTGGGTCG	3180
TTGTTGTTGT GATATGAGCG	TATGGAACTG	GGCTTGGATG	AAGGCCAGCC	GCAACCAAGC	3240
CAGCGATATG GGCCATGTCC	ACCATGAGCT	TCGCACCGAC	AGCATCTGCG	ATTTCACGGA	3300
ATTTTGAAAA ATCGATAATT	TGAGAATAGG	CTGAAGCACC	AGCTACAATC	AGTTTTGGTT	3360
TTACTTCTTG GGCTTGTTTC	AAGATAGCAT	CAAAGTCTAA	GAGTTCCGTT	TTAGGATCAA	3420
CACTATAAGA AACAAAGTTG	TAGGTTTGAC	CAGAGAAGCT	AACAGGAGCC	CCATGAGTCA	3480
AATGACCACC TGATGCCAAA	TCCATTCCCA	TAACCGTATC	ACCTGGCTCA	ATCAAGGACA	3540
TGTAAGCCGC ACAGTTAGCT	TGGCTTCCTG	AATGTGGTTG	AACATTGGCA	AATTTAGCAC	3600
CGAAAATTTC TTTTGCGCGT	TCAATAGCAA	GAGTCTCTAC	AACGTCTACT	ACATCAGTTC	3660
CACCATAATA ACGGCGTCCT	GGGTAACCCT	CGGCATATTT	ATTTGTCAAG	ATAGACCCTT	3720
GAGCTGCCAT AACAGCCTTG	GAAACTACGT	TTTCCGAAGC	AATTAACTCG	ATATTATTTT	3780
GTTGGCGTTC TTCTTCTTTG	GCAATAGCAT	TCCAGAGATC	AGCATCATAT	GCTTTAAAAT	3840
CATCTTTGTC AAAAATCATA	GGTCTTCTCC	TTTATTGTGT	GACTAGTCCA	TTAGTTTGAT	3900
ТТТАСААТАА GAAAATCAAA	CTAACAGATG	CGAATAAACC	GTTTCTGCAT	TTTATCACAA	3960
GTATAGCCAA CTTTTTCATA	AAATGCATGA	GCACCCAGAC	GATGATTGGC	AGAATTTAAG	4020
CGGATAAACC CATAACCACA	TCTTTTTGCT	TCTTCTTCCA	ACCCTTGTAG	TAAACTTTTA	4080
CCAATACCTT GACCTTGCGC	TTGAGGTGAA	ACTGCTAAAG	CTAAGATATT	AAATCCTGCT	4140
TTGGAATAGA GTGATTCGTA	AACTTCAGCG	TGGACATATC	CAAGTAAGAC	ATGATTAGCT	4200
GCATCCTCAT AGCCAAGTAG	GAAATGATGG	GAATCCTGAG	ACAGTCTAGC	TAGTTGGCTA	4260
GCCGTTTCCT CTGGACTAAA	AGTATAACCC	AAAGCCTCTT	GGTTGATGTC	ACATATAGCT	4320

TTCACATCAG	TTTCTCTTAA	ATCTCTTAGC	ATCTCATTCC	TCCTCAAAAG	AAATCTTTGG	4380
CAACCGAGCA	AGAATATCTT	CTCGCTTAAT	GGCCCCTTGA	CGTAAGATTT	TCACCTTGTC	4440
TCCCGACAAA	TTCAAAATAG	TTGAATCCTG	TCCAGTTAGA	AAAGCATCGT	CTTCCAGACC	4500
CAGAACCTCT	TGGTCAAAAT	CCTCTAGAAT	TTGATTAAAG	GTCACTCCAC	TCGCCTGACC	4560
TGAGATATTG	GCAGACGGCC	CAATCAAGGG	ACCTGTCTCT	CGAATCAAAT	CAAGGGTAAT	4620
GGGATGACTA	GGCATCCGAA	ATCCAACAGT	TGCAAGGCCA	GAATTGACCC	AATAGGGAAC	4680
TCGGTCATTA	GCTTCGAGAA	TAATGGTCAA	GGGACCTGGT	AAAAAGATCT	CTACAAGTTT	4740
TTGAAGATAA	GTTGGCTGAT	TCTTTGAAAA	GTACAAGATG	TCCTCTAAAG	AGGCAACATT	4800
GAGATTGAGC	GCCTTGTCTC	TACGTCGACG	TTTAAGCTGG	TAAACATGGT	CAACTGCTTT	4860
TTCGTCTAGC	GCCTTAGCAA	AGAGACCGTA	AACTGTCTCT	GTAGGCAAAA	CGACAGCTCC	4920
ACCATTTTCC	AACTCTTGTC	TAATCCTGTC	CATCATCAAC	GACAACCATC	CTATCTTGAC	4980
CAAATTGGTC	CTTGAGTGTT	CGTACTCGCT	TTTCAGGAAG	ATGTTTCCTA	AAAAGTTCAG	5040
GAACACTTTG	ACCTTGCTTG	TATCCAATTT	CAAGGTAAAT	CTTACCACCA	TCTTTGAGAT	5100
AGTCTTTTGC	ATCTTCCGCA	ATTCTACGGT	AAATAGCTAG	GCCATCCTCA	TCTGCAAAGA	5160
GAGCTAGATG	AGGCTCCGAA	TACAAGACAT	TCAAGCCTAC	CTCTGACTCA	TCTTCACGAG	5220
AGATATAGGG	TGGATTGGAA	ACAATTATAT	CATATTTTTC	AGAAATTTCT	GTAAAACAGT	5280
CAGATTTTTT	ТАААААТАТТ	TGAAGATTTT	GATTTTTAGC	ATTTTCGCTA	GCTACATCTA	5340
AAGCATCTTG	GGAAATATCT	GCTGCCGTCA	CTGACCAATC	TGGTCTGTTT	TTTGCTAGAG	5400
CGAGAGCAAT	AGCTCCACTA	CCTGTTCCGA	TATCTAGGAC	CATAAGATTT	TTCACAGGAT	5460
TTTCAGCCAG	GATAAGCTCC	ACCAACTCCT	CTGTTTCTGG	ACGAGGAATC	AAAACCCGTT	5520
CATCCACCTT	TAAATGCATT	ССАТАААААТ	CTGCCTGTCC	AATGATGTAC	TGAGCTGGCT	5580
TGTGAGCTGC	TAGTTGCTGG	TAAATATCTT	CTACAAATTG	TTTTTCTTCC	TCTGTTGTCA	5640
CCTCCTGCTG	GAGGGCAAAA	ATAAAGTCTG	TAAAAGATAG	ATTTTTCAGA	CTACGATAGA	5700
CAAAAGAGAG	GCTTTCCGCT	TCCTCTCCTT	GTCTTATCAA	CTCTTCTTCA	AAATTTGAAA	5760
ATAATTGAGC	TAATTTCATT	ATTTGTTTAA	TTCTTCTAGT	TTTTGTGTTT	GGTCATAAAG	5820
CACCAAGGCA	TCCACAACTT	CGTCCAATTT	ACCAGACAAA	ATCGTATCTA	GTTTTTGGAG	5880
GGTCAAGCCG	ATACGGTGGT	CTGTGACACG	GTTTTGTGGG	AAGTTATAAG	TTCGGATCCG	5940
TTCTGAACGG	TCACCAGTAC	CGATTGTCGA	CTTACGCTCA	GCGTCCTGCT	CATCTTGAGC	6000
AATCTGAGCA	AAGTGGTCAG	CAACACGGGC	ACGGATGATT	TTCATGGCCT	TCTCACGGTT	6060

CTTCTGCTGG	GTACGTTCTT	CCTGCATCTC	712 AACCTTGATA	TTGGTTGGCA	AGTGAACGAT	6120
ACGAACGGCA	GTCGCAACCT	TATTGACGTT	CTGTCCACCA	GCACCAGAGG	CGTGATAGAT	6180
GTCGACACGA	AGGTCTTTTG	GATCAATGTC	GTATTCAACC	TCTTCAACTT	CTGGCATAAC	6240
AAGAACTGTC	GCTGTCGAAG	TATGAACACG	GCCTTGGCTT	TCTGTCACAG	GAACACGTTG	6300
CACACGGTGG	GCACCTGATT	CATACTTAAG	CTTAGAGTAT	ACAGACTGAC	CTGAAACCAT	6360
AGCAACCACT	TCTTTAAAAC	CACCGACACC	ATTCATAGAG	GCTTCCATGA	CTTCAAAGCG	6420
CCAACCTTGG	GCTTCCGCAT	ACTTTTGGTA	CATAGTTAGC	AAATCTCCAG	CGAAAAGTGC	6480
CGCTTCGTCT	CCACCAGCTG	CTCCACGGAT	TTCAAGGATG	ATATTCTTGT	CATCGTTTGG	6540
ATCCTTTGGA	AGGAGCAAAA	TTTTCAGTTT	TTCTTCATAT	TCTTCTTTTT	CAGCCTTGGC	6600
ATCTTTGAGT	TCTTGCTTGG	CCAATTCTTC	CAAGTCCGCA	TCTCCGCCTG	ATTCCTTAAT	6660
CATCTCTTCG	GCATCGACGA	TATTTTGAAG	GACTTGTTTA	TACTCACGGT	AGGCTATTAC	6720
GGTGTCACGA	TTGGAAGCTT	CTTCTTTTGA	AAGCTCCATA	AAACGCTTGG	TGTCTGAAAC	6780
GACATCAGGG	TCACTCAGCA	ATTCTCCTAA	TTCTTCATAA	CGGTCTTCTA	CAACTTGTAG	6840
TTGATCATAG	ATGTTCATTT	TTTCTCCTTA	TTTCTCAATT	GTTAAATCAT	AGATTGCTAC	6900
TACTTCATTC	TCGGATATTT	CCCCAGTTTC	TTTAAATCCA	TAACTGAGGT	AACAAAATCT	6960
TGCCTGTTCA	TTTTCTGGTT	CATArGACAA	CCAAAGTTTA	TTGCTTAAAC	CTGCTGGCGC	7020
TGTTCGAACA	TAGTCTAGTA	CTTTATCCAT	AATTGGTTTA	AAATATCCTT	GATTTTGAAA	7080
ATTCTTATCA	ATCATAAAAC	GAAATAGTAA	ATAATTTCCA	CTACTAATTC	CGATCTTTTT	7140
ATCATAAGCT	ATCATCACAA	AACCTATAAT	TGCATCATTA	TCATAAACTG	CCAATGGAGC	7200
TACAAAATCT	CCATTTTTAG	TGTAGACGTA	TGCTTCAGCT	AAACTAATTG	CGTTGGTTGC	7260
AATGAATTGT	TTTTGATATT	CCTTGACATC	CAAATTTAAA	ACATCAAAAT	AATTTTCCAT	7320
TGTAACATCT	CTTAGTTCAA	TTGTCATAGT	TTTGCTCCTT	GTTAGAGGTT	ATCATTGGCG	7380
CAAAATAATG	TTTACGGCAA	ACTGAGATAT	AGGTTTCGTT	ACCACCAATC	TGGATCTGTT	7440
CTCCATCGTA	AACGGGCAGT	CCATCCTGTG	TTCGCAACAC	CATGGTCGCC	TTTTTCTTGC	7500
AATACTGACA	GATGGTCTTG	ATTTCGTCAA	TCTTGTCTGC	TAAAAGCAAG	AGATATTTGG	7560
AACCTTCGAA	CAATTCATTG	CGAAAGTCAT	TTTTCAAGCC	AAAAGCCATG	ACGGGTATGT	7620
CTAACTCGTC	CACAACACGA	GCTAGGTCGT	AAACATGGTG	GCGTTTGAGA	AACTGGGCTT	7680
CATCGACCAA	AACACAGTAA	GGTTTTTCTG	GTAGGTCTCG	GATATAGCCA	AAGATATCCG	7740
TTGTTTCCTC	AATCGCAAgG	GCAGGGCGTT	TCATGCCAAT	TCGACTCGAC	ACATAGCCAA	7800
CGCCGTCACG	CGTATCCAGA	GCCGAGGTCA	TAATCACAAC	ACCTTTTCCT	TGCTCCTCGT	7860

AGTTATAGGC	CACTTTGAGA	ATCTCAATCG	TTTTACCAGA	GTTCATGGTC	CCATAACGAT	7920
AGTACAACTG	TGCCATGTTT	CTTGCTTCAC	GTCCATTTCT	AAATTTTTGC	TACATTCTAG	7980
TATATCATAA	TTTTCTTAAG	CTTTAAACGG	CAAAATGTGG	TAAAATAGAA	GAAATCAAAA	8040
ACTAGTGGAG	GAAGCTATTA	TGCCATTTGT	ACGCATCGAT	TTATTTGAAG	GACGCACGCT	8100
CGAGCAAAAG	AAAGCTCTTG	CTAAGGAAGT	AACGGAAGCA	GTTGTCCGCA	ACACTGGAGC	8160
CCCTCAATCT	GCTGTCCATG	TCATCATCAA	CGACATGCCA	GAAGGAACTT	ACTTCCCACA	8220
AGGGGAAATG	CGTACTAAAT	AAGCTAGCTT	AAGCAGAATT	GCTTAGGCTT	TTTCAATCTC	8280
CAAGTAGCAT	TCATTGAAGA	AATATCCTAA	ATTTGTTACA	ATTTGAAAAG	AAACTTGGAG	8340
AATTTCCAAG	AAAAGAGCTA	TTAATTAAAG	GAAACATTAT	GATTACACGT	GAATTTGATA	8400
CCATCGCTGC	TATCTCTACT	CCACTAGGTG	AAGGGGCTAT	TGGTATTGTC	CGCCTGAGCG	8460
gAACAGACAG	TTTTGCTATT	GCGCAAAAGA	TTTTTAAAGG	AAAAGACTTG	AACAAGGTTG	8520
CCAGCCACAC	TCTCAACTAC	GGTCACATTA	TTGATCCTCT	GACTGGTAAA	GTCATGGACG	8580
AGGTTATGGT	TGGGGCTATG	AAGTCTCCAA	AGACCTTCAC	TCGTGAGGAT	ATTATCGAGA	8640
TTAACACCCA	CGGTGGGATT	GCGGTGACCA	ATGAAATTCT	CCAGCTAGCT	ATTCGTGAAG	8700
GGGCTCGGTT	GGCAGAACCT	GGTGAATTTA	CCAAACGTGC	TTTTTTAAAC	GGTCGCGTAG	8760
ACTTGACACA	GGCAGAGGCT	GTGATGGATA	TCATCCGTGC	CAAGACTGAC	AAGGCCATGA	8820
ACATTGCGGT	CAAACAATTA	GACGGCTCCC	TTTCTGACCT	CATTAACAAT	ACCCGTCAAG	8880
AAATCCTCAA	TACACTTGCC	CAAGTTGAGG	TCAATATCGA	CTATCCTGAG	TATGACGATG	8940
TTGAGGAAGC	CACTACTGCT	GTTGTCCGAG	AGAAGACAAT	GGAGTTTGAG	CAATTACTAA	9000
CCAAACTCCT	TAGGACAGCA	CGTCGTGGTA	AAATCCTTCG	TGAAGGAATT	TCAACGGCTA	9060
TCATTGGACG	TCCCAACGTT	GGGAAATCAA	GCCTTCTCAA	CAACCTCTTG	CGTGAGGACA	9120
AGGCTATCGT	AACAGATATC	GCTGGGACAA	CACGAGATGT	CATCGAAGAG	TACGTCAACA	9180
TCAATGGTGT	ACCTCTCAAA	TTGATTGATA	CAGCCGGTAT	TCGTGAAACG	GATGATATCG	9240
TTGAACAAAT	TGGAGTTGAG	CGTTCGAAAA	AAGCTCTTAA	GGAAGCTGAC	CTAGTTCTGC	9300
TAGTACTAAA	CGCTAGTGAA	CCACTAACCG	CCCAAGATCG	CCAACTCCTA	GAAATCAGTC	9360
AGGAGACTAA	TCGCATTATT	CTTCTTAACA	AAACTGACCT	GCCTGAAACG	ATTGAAACTT	9420
CGGAACTACC	TGAAGATGTC	ATCCGCATTT	CAGTTCTTAA	AAATCAAAAC	ATCGATAAAA	9480
TCGAAGAGAG	AATCAACAAC	CTCTTCTTTG	AAAATGCTGG	TTTGGTTGAG	CAAGATGCTA	9540
CCTACTTGTC	AAACGCCCGT	CACATTTCCT	TGATTGAGAA	GGCCGTTGAA	AGCCTACAAG	9600

			714			
CTGTTAACCA	AGGTCTTGAA	CTAGGGATGC	CAGTTGACTT	GCTTCAAGTT	GACTTGACCC	9660
GTACTTGGGA	AATTCTAGGA	GAAATCACTG	GAGATGCTGC	TCCAGATGAA	CTCATCACCC	9720
AACTCTTTAG	CCAATTCTGT	TTAGGAAAAT	AAGAAAAATC	CATGATCCTT	CATTCGGTCA	9780
TGGATTTTAG	GTTCTATAAT	ATTTGTAGTG	GGTAAATCCA	CTATAGATAT	TATGGAGCCT	9840
ATTTTATTGT	AGAAAAAAAG	TCCCATATGA	CCTATAATGA	AAAGCGACAA	AACAACTCAT	9900
TAGAAAGAAT	CATATGGAAC	AATTACATTT	TATCACAAAA	TTACTAGACA	TTAAAGACCC	9960
TAATATCCAG	ATTTTAGACA	TCATCAATAA	GGATACACAC	AAGGAAATCA	TCGCCAAACT	10020
GGACTACGAC	GCCCCATCTT	GCCCTGAGTG	CGGAAACCAA	TTGAAGAAAT	ATGACTTTCA	10080
AAAAACCTTC	TAAAATTCCT	TATCTTGAAA	CGACTGGTAT	GCCCACTAGA	ATTCTCCTTA	10140
GAAAGCGTCG	ATTCAAGTGC	TATCACTGTT	CAAAAATGAT	GGTCGCTGAA	ACTTCTATCG	10200
TCAAGAAGAA	TCACCAAATC	CCTCGTATCA	TCAACCAAAA	GATTGCTCAA	AAGTTAATTG	10260
AAAAGATTTC	TATGACTGAT	ATTGCCCATC	AGCTTTCCAT	CTCAACTTCA	ACTGTTATTC	10320
GTAAGCTCAA	TGACTTTCAC	TTTAAACATG	ATTTTTCTTG	TCTTCCTGAG	ATTATGTCTT	10380
GGGATGAGTA	TGCTTTTACA	AAAGGGAAGA	т			10411
(2) INFORMA	ATION FOR SE	O ID NO: 90) •			

(2) INFORMATION FOR SEQ ID NO: 90:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2393 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 90:

GTTTTGGGTT	CTGGAAATTA	TCAGATGGTT	GGAAAAGCCG	TCCACATCAA	GATAGTGTTC	60
GGAGATTTAA	GTTTAAATTG	AAGAAACTAA	CACAGAGGAA	ATGGAGTATA	GACCTAACAA	120
GACGTATTGA	GCAACTGAAT	TTGTCTATTC	GAGGATGGAT	AAACTATTGC	TCATTGGGAA	180
ATATGAAAAG	TATAGTCGCC	AGCATAGATG	AGCGCTTGCG	TACTCGCCTA	CGAGTGATTA	240
TCTGGAAGCA	ATGGAAGAAG	AAATCGAGAC	GATTATGGGG	ATTGCTTAAG	TTAGGAGTTC	300
CTAAATGGAT	AGCAGATAAG	GTATCTGGCT	GGGGCGACCA	TTATCAATTA	GTAGCTCAGA	360
AGTCGGTACT	TAAACGTGCT	ATATCAAAAC	CAGTCCTGGA	AAAACGTGGA	CTGGTTTCGT	420
GTTTGGATTA	TTACCTTGAA	CGACATGCGT	TAAAAGTTAG	TTGAACCGCC	GTATGCCAAA	480
CGGCACGTAC	GGTGGTGTGA	GAGGGGCTAG	AGATTATCCC	CTACTCGATT	AACTCCCCTG	540
AAATTTATTT	TAATTATGCA	AATTTCACGT	ATTTTTGATG	CTGAGACGAC	GATCCTGGGA	600

ACTTTTCAGA	TATTTTTTG	ACTATCTAAA	TCTATCATTA	GAAAAGCTTA	GAGCGCCAAA	660
GGATTTGAGC	GTTTTTCTGA	TTTTTAAGAC	TTTTTCCAGT	CTCTTTTTCG	ATTGAAGATG	720
TAATTATTCT	ACTAACTAAC	TAACTTCTTA	GTACTAGCCA	ACAACGATAA	TCATAATTCC	780
TCCTAAAATT	AGGAATAATA	AAGGCAATAG	TTTTTGTTTT	TTCATGTAAA	AAACCTCACT	840
TTTGTTTTCT	GCTATTTTAT	GCTAAAATAT	TAAAAATCAA	ATTTAATTCC	AAAGTTTGTA	900
ACTAAAGGGG	GAGCGCTACA	TGTCTAATTC	ATTTGTCAAG	TTGTTAGTCT	СТСААТТАТТ	960
TGCAAATTTA	GCAGATATTT	TCTTTAGAGT	AACAATCATT	GCTAACATAT	ACATTATTTC	1020
AAAATCAGTA	ATTGCCACAT	CACTAGTTCC	TATCTTAATA	GGAATATCCT	CTTTTGTTGC	1080
GAGTCTTTTA	GTTCCGTTGG	TTACTAAAAG	GTTAGCGCTA	AATAGGGTTT	TATCTTTATC	1140
TCAATTTGGA	AAGACTATAT	TATTGGCGAT	ACTGGTAGGA	ATGTTTACCG	TAATGCAATC	1200
CGTAGCGCCT	TTGGTGACCT	ATCTATTTGT	TGTTGCAATT	TCCATACTAG	ATGGTTTTGC	1260
AGCACCCGTT	TCCTATGCTA	TTGTGCCACG	CTATGCGACC	GATTTGGGTA	AGGCTAATTC	1320
AGCCTTATCA	ATGACTGGTG	AAGCTGTTCA	ATTGATAGGT	TGGGGATTAG	GTGGACTCTT	1380
GTTTGCAACA	ATTGGTCTGT	TACCTACCAC	GTGTATCAAT	TTAGTCTTGT	ATATCATTTC	1440
TAGCTTTCTG	ATGTTATTTC	TTCCTAACGC	TGAAGTGGAG	GTGTTAGAGT	CAGAAACTAA	1500
TCTTGAAATT	TTGCTCAAAG	GTTGGAAGTT	AGTTGCTAGA	AATCCTAGAT	TAAGACTTTT	1560
TGTATCAGCA	AATTTATTGG	AAATTTTTC	AAATACGATT	TGGGTTTCTT	CCATTATACT	1620
TGTTTTTGTA	ACGGAGTTAT	TAAATAAAAC	GGAAAGTTAC	TGGGGATATT	CTAATACAGC	1680
ATACTCTATT	GGTATTATAA	TTAGTGGCTT	AATTGCTTTT	AGGCTATCTG	AAAAGTTCCT	1740
TGCTGCTAAA	TGGGAACCCC	AATTATTCAC	СССАААТСТА	AAAACCATCC	AGAATCCTTG	1800
CCTTAGCTTA	GATCCTGGAT	GGTTTCTTTT	TTCACCCAAT	GGGTGTTTTT	TACTAGACAA	1860
AAAAGAGTTT	CCCCTTTATG	GTATAAGTGT	AGAAAAAAAC	ACAAAAAGAA	AGGAAACTCA	1920
CATGAACAGT	TTACCAAATC	ATCACTTCCA	AAACAAGTCT	TTTTACCAAC	TATCTTTCGA	1980
TGGAGGTCAT	TTAACCCAGT	ATGGTGGTCT	TATCTTTTTT	CAGGAACTTT	TTTCCCAGTT	2040
GAAACTAAAA	GAGCGGATTT	CTAAGTATTT	AGTAACGAAT	GACCAACGCC	GCTACTGTCG	2100
TTATTCGGAT	TCAGATATCC	TTGTCCAGTT	CCTCTTTCAA	CTGTTAACAG	GTTATGGAAC	2160
GGACTATGCT	TGTAAAGAAT	TGTCAGCTGA	TGCCTACTTT	CCAAAATTGT	TGGAAGGAGG	2220
GCAGCTTGCT	TCACAGCCAA	CCTTATCCCG	TTTTCTTTCC	AGAACTGACG	AGGAAACAGT	2280
CCATAGTTTG	CGATGCCTCA	ACCTTGAATT	GGTCGAATTC	TTTTTACAGT	TTCACCAGCT	2340

> 716 AAACCAACTC ATTGTAGATA ACGATTCTAC CCATTTCACA ACTTATGGCA AGC 2393

(2) INFORMATION FOR SEQ ID NO: 91:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 4762 base pairs (B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 91:

TTTGTATCTT TTTA	AGGTCTC TTTCAATCC	A AACCCTTTAA	ACTATACGTC	ATTTCGGTTC	60
CTGCAAGTCT TGTG	GGTAATT TTAGGTTTG	A TTTTACTTT	CTTTTCACAA	GAGCCTCTGC	120
ACGCTTCTTA TTTC	GATGGTC GTCTTCCCT	G TTTTCCTACT	TTTATTGGTA	ACCAATATTA	180
AGAGTCAACA GAGG	GGGCGT AGTGCTAGA	A GAAGCCGAAG	AGAAACGCCA	TTATGCCTAT	240
GGAGTCGTTT CTTC	CAAAGGA AATCTATAT	C TGCTAGTTTT	TGGGTTTGTC	TATCTTTTGT	300
CTGTTCCTTT TTTG	GATGAAG TTTGTCCTT	r atccagtacc	TTATCAAGAA	CGTAATCGTC	360
TTGCTGATTT GGTA	AAAAGAG GAGACAAAT.	A CGGAAGATGC	TATCTCATGC	ATGGGATGAT	420
ACTGCGACTC TTTA	ATCGTAA GAGTGAGCG	C TTGTCCCATC	GGCGATTTTG	TCCCCGTTGC	480
ACTATACAGC AACT	GAGGAA AATCGTAAT.	A AGTTACTTAA	TGACTTGAAA	GAAAAACAAC	540
CTAAGGTGAT TGTG	GTAAAT GATAAGGTG	G TAGTCTGGTC	TGAAGTGGAA	ACACTCTTAA	600
AAGAAAATTA CCAA	ACAAGTA AAGACTGAT	r actcagagtt	TAAAGTCTAT	AAAATTAAAT	660
AACCAAATCA ATAT	CTTGTG TATTTTAA	A AATTTTAGGA	TTTTTAACAC	AAGATATTGA	720
TTTTTCTTTT TAGA	GTGGTA TAATACTTT	T TAGAAAGAAC	ATTTTAGAAA	AGAGCATGCA	780
TATGATTGCA CTAG	SAAGAAA AAATTACAA	TTTGCCAACT	CTCTTCGTCG	AGAAACGAGA	840
TGGGAGACGT GTTG	TATTTG ATGTGGACA	A GATTGACAAG	GCTCTCCACA	AGGCGGCTGA	900
CAAGGTTATG GATG	TGACAC CCCTGGTTG	AAAATGCCTC	AATGATCTGA	CTGAGCGAAT	960
TATTACAGAA ATTC	ATAGTC GCTTTCCAC	A GGGAATTAAG	ATTTACGAAA	TTCAAAATAT	1020
CGTAGAACAT GAAC	TCCTTG AAGCCAAAG	ATATGCGCTG	GCTGAGGAGT	ATATTACTTA	1080
TCGGACACAG AGGG	ATTTTG AGCGCTCAA	A AGCGACGGAT	ATCAACTTTA	GTATTCATAA	1140
ACTTCTCAAC AAAG	ACCAGA CAGTTGTCA	TGAAAACGCT	AATAAAGACA	GTGATGTCTT	1200
TAACACTCAG CGTG	ATTTGA CAGCAGGGA	TGTTGGGAAA	TCAATCGGAC	TGCAAATGCT	1260
TCCTAAGCAC GTAG	CCAATG CCCACCAAA	GGGGGATATC	CACTATCACG	ATTTGGACTA	1320
CAGTCCCTAT ACCC	CTATGA CCAACTGCTC	TTTGATTGAT	TTTAAGGGTA	TGTTGGAAAA	1380

TGGTTTTAAG	ATTGGAAATG	CAGAGGTAGA	GAGTCCCAAG	TCTATCCAGA	CTGCGACAGC	1440
ACAGATTTCT	CAAATCATTG	CCAACGTTGC	TTCTAGCCAG	TACGGTGGCT	GTTCAGCTGA	1500
CCGTATCGAT	GAAATTTTGG	CGCCTTATGC	AGAGAAGAAT	ТАТСАААААС	ATCTCAAAGA	1560
TGCAGAAGAG	TGGGTATTGC	CTGAAAAACA	GGAAGATTAC	GCTTGGAAGA	AAGCGCAAAA	1620
GGACATCTAC	GATGCCATGC	AATCTCTTGA	GTATGAAATC	AATACTCTCT	TCACTTCAAA	1680
TGGACAAACA	CCTTTTACTT	CGTTAGGTTT	TGGTCTGGGA	ACCAGTCGTT	TTGAACGAGA	1740
AATTCAAAAA	GCTATTTTAA	ACATTCGCAT	CAAGGGTCTT	GGTTCAGAAC	ACCGTACGGC	1800
TATCTTTCCT	AAACTTATCT	TTACGCTTAA	AAGAGGCCTC	AACTTAGAGG	AAGGAACTCC	1860
CAACTATGAC	ATCAAGCAGT	TGGCTCTAGA	GTGTGCAACC	AAGCGGATGT	ATCCAGACGT	1920
CTTGTCTTAT	GATAAGATTG	TTGATTTGAC	AGGTTCTTTC	AAGGTGCCTA	TGGGCTGCCG	1980
TTCTTTCCTT	CAAGGGTGGA	AGGATGAAAA	TGGTGTAGAA	GTCAATTCAG	GTCGCATGAA	2040
TCTGGGTGTT	GTGACGGTTA	ATCTGCCTCG	TATTGCTCTT	GAGTCTGAAG	GTGATATGAA	2100
TAAGTTCTGG	GAAATCTTCA	ACGAGCGAAT	GAATATCGCA	GAAGATGCTC	TTGTTTACCG	2160
TGTCGAACGC	ACTAAAGAGG	CGACACCAGC	GAATGCTCCT	ATTCTTTATC	AGTACGGTGC	2220
TTTTGGCCAT	CGTCTAGGTA	AAGAAGAAAG	TGTTGACCAG	CTCTTTAAGA	ATCGTCGTGC	2280
GACCGTTTCG	CTGGGCTATA	TCGGCTTGTA	TGAAGTAGCG	ACAGTTTTCT	TTGGTAACAG	2340
CTGGGAAAGT	AATCCAGATG	CTAAGGAATT	CACGCTAGAC	ATCATTCACG	ATATGAAACG	2400
CCGTGTAGAA	GAGTGGTCAG	ACCAATATGG	CTACCATTTC	TCTATCTACT	CAACACCATC	2460
CGAAAGTCTG	ACAGACCGTT	TCTGCCGACT	AGATATAGAC	AAGTTTGGCT	CTATTCCTGA	2520
TATCACAGAC	AAGGAATACT	ACACCAACTC	TTTCCACTAC	GATGTTCGTA	AAAATCCAAC	2580
ACCGTTTGAA	AAATTGGACT	TTGAGAAAGT	CTATCCGGAA	GCAGGTGCGT	CAGGTGGTTT	2640
CATCCATTAT	TGTGAGTATC	CAGTCCTTCA	GCAAAATCCA	AAGGCCTTGG	AAGCTGTCTG	2700
GGATTATGCT	TATGACCGTG	TAGGCTATCT	AGGCACCAAT	ACTCCGATTG	ACCGTTGCTA	2760
CAAGTGTGAC	TTTGAAGGGG	ATTTTGAACC	AACTGAGAGA	GGGTTTGCTT	GTCCAAACTG	2820
TGGCAATAGC	GACCCTAAAA	CAGTAGATGT	GGTGAAACGA	ACTTGTGGCT	ACCTAGGTAA	2880
TCCTCAAGCA	AGACCGATGG	TCAACGGGCG	TCACAAGGAA	ATCGCTGCGC	GTGTCAAACA	2940
TATGAATGGT	TCAACGATTA	AAATAGCTGG	GCATCAAGTA	ACAAATTAGA	AAGAAATGAA	3000
ATGGGAAAAT	ATCAACTAGA	CGATAAGGGG	CGCGCACAAG	TGACCCGTTA	TCACGAGAAA	3060
CACTCTAAAG	GTGGAGCTGG	TAAGAAAGAA	CGCTTGCTTA	GCTTCAGAGA	ACAATTTTTA	3120

			718			
AACAAGAACA	AGAAAAAATA	AAAGTGAGAG	CCAGCTCTCG	CTTTTCTCAT	AGTGGGAGGT	3180
AAGGATGGAA	TTACGCAGAC	CAAGATTAGC	GGATAAGAAA	GCTGTTTTAG	ATATGATGAC	3240
AGAGTTTGAA	AAATTTCAGT	CGCCTCACGA	CGGCGGTTTC	TGGGATACAG	AGAACTTTGT	3300
GTATGAAGAC	TGGTTAGAAA	GCAATCAGGA	ACAGGAAATG	GGGATTAATC	TGCCTGAAGG	3360
ATGGGTTTCT	GCAATTCAGT	TAGTGGCTTT	TTCTGAGAAA	GGTCAAGCAG	TTGGATTTCT	3420
TAATCTCCGG	TTGCGCCTCA	GTAACTTTCT	ACTAGAAGAA	GGTGGCCACA	TTGGCTACTC	3480
CATTCGTCCA	TCTGAAAGAG	GCAAGGGTTA	TGCAAAAGAG	ACTCTCCGTC	AGGGCTTGCA	3540
AGTTGCTAAG	GAAAAGAACA	TCAAGAAAGC	TCTGGTGACC	TGTAGTGTGA	ATAATCCTGC	3600
TAGCAGAGCA	GTCATTCTAG	CAAATGGTGG	AATATTTGAG	GATGCTCGCA	ATGGAGTCGA	3660
GCGTTATTGG	ATAGAGGTAG	CGAATGAATA	ATCCAAAACC	ACAAGAATGG	AAAAGCGAGG	3720
AACTTAGTCA	AGGTCGTATC	ATTGACTACA	AGGCCTTTAA	CTTTGTGGAC	GGCGAAGGCG	3780
TGCGCAACTC	TCTCTATGTA	TCAGGCTGTA	TGTTTCACTG	CGAGGGATGT	TATAATGTTG	3840
CGACTTGGTC	TTTTAATGCT	GGCATTCCCT	ATACAGCAGA	ATTAGAAGAG	CAGATTATGG	3900
CAGACCTTGC	CCAACCCTAT	GTTCAAGGCT	TGACTTTGCT	GGGAGGGGAG	CCTTTTCTCA	3960
ATACTGGGAT	TCTCTTGCCA	CTTGTTAAGC	GGATTCGGAA	GGAATTGCCA	GACAAGGACA	4020
PCTGGTCCTG	GACCGGCTAC	ACTTGGGAAG	AAATGATGTT	GGAAACTCCA	GATAAACTGG	4080
AATTCTTGTC	ACTGATTGAC	ATTCTTGTCG	ATGGAAGATA	TGATCGAACT	AAGAGAAATC	4140
PTATGCTCCA	GTTTCGAGGT	TCATCTAACC	AACGAATTAT	CGATGTGCAA	AAATCGCTCA	4200
AAAGTGGGCA	AGTAGTGATT	TGGGACAAGC	TCAATGACGG	AAAAGAAAGC	TATGAACAGG	4260
rgaagagaga	ATGAAGAAAA	AGGACTTAGT	AGACCAACTA	GTCTCAGAGA	TCGAGACGGG	4320
GAAAGTCAGG	ACACTGGGAA	TATACGGTCA	TGGAGCTTCA	GGTAAATCAA	CCTTTGCACA	4380
GGAATTGTAC	CAAGCTTTAG	ATTCTACTAC	AGTAAATTTG	CTAGAGACAG	ATCCTTATAT	4440
CACCTCAGGA	CGCCATCTGG	TAGTACCCAA	GGACGCGCCG	AATCAAAAGG	TGACAGCCAG	4500
CTGCCAGTG	GCGCATGAAC	TGGAGAGTTT	GCAGAGAGAT	ATCCTTGCTT	GCAGGCGGGT	4560
ATGGATGTCT	TGACAATTGA	AGAACCTTGG	AAGGCTAGTG	AGGTCTTGTC	TGGAGCCAAA	4620
CCAATTTTGA	TTGTCGAAGG	GATGTCTGTT	GGCTTTCTAC	CCAAGGAACT	CTTTGAAAAA	4680
ACCATCTGTT	TCTACACGGA	TGAGGAGACC	GAATTAAAGC	GACGCCTTGC	TAGAGATACG	4740
ACTGTGAGAA	ATCGCGATGC	GG				4762

(2) INFORMATION FOR SEQ ID NO: 92:

⁽i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3832 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 92:

60	TGTTAATCAG	AAGATGATGA	AATTACTTTA	TATTCCAGAA	TCGACCCACA	GATGCAGGTT
120	GGTAGACCAT	TCAGTAATTG	GCCCTCTTTT	TTCATCTGCA	TTTGTTGGTC	GTACCTTGTC
180	ATCTGCATAT	AAGATGATGC	AGAAAGATAG	TTTTGATTGG	AGGAGACGCC	GCGGTCTATC
240	ACCTTGGTTT	TAAATCAGGT	TAGACGCTTT	ATGACATATT	AAGAGGAATT	GGGTATTTAT
300	GATTTTCTGG	TTCTAGCGAC	AACTCTTTCC	CATTTTAAGG	CCTGCTCTTG	TACCGAGTGC
360	CCAAGCCAGA	AGAAATGTCG	CAGGCTTAGA	CAAAATACGA	TTTCTATTTG	TTTGGCAATT
420	AATCTGACGG	GTCCATTTCT	ATGTCAACCA	GAAATTTCGG	GATTGGCAAG	TTGCTGAAAG
480	TTGCTCTTTG	CGAAATTGAA	AATTAAATGG	CGTACTATCG	GCTCCAGTAT	AAAGGGGACT
540	TCAAGTTCAG	AGCAGTTCAT	ACCTGTTTGG	CGTTTGGATG	GGCCTTGGAA	ATGCTAGTTT
600	CAGGAGTTGG	AACCTTCCAG	ATTTGGTGGA	CAGCTCAAGG	ACCTCAAAAC	ACCAGCTAAC
660	GAAGATGGAA	GACACTAAAG	ATTTGACCAA	GAGATTGAGG	GACGCCTTTT	GACGATTGTT
720	AAACCAAACT	TTTGAATGGA	GTGAAGCTGT	GAGGCTCTTC	CTTGATTAAG	CCAGTGCTGA
780	AGTGTGGCTC	AGGAATCAAG	GGCGCCATGA	TTGAGAAACT	TCAGGCGATT	GGAAGTACAT
840	CAGGTATCTG	TCAGTTGACA	CAAGCAATCC	GAAAGAGAAG	CAAGAGAGCA	AAATTGAGGC
900	GGCTTGAAAT	CATGCAAGTA	AGGATTAATC	GATCTCTGGA	AAATGCCATG	CAGATTTCAT
960	TAAATTGAAA	AAATAGAAAA	GTGATAGAAT	GTGTATAATT	TTTGCAAGCT	CCGAGTAAGA
1020	AATGAACAAA	GTAACTGGAA	TTTATCGCTG	ACGTAAACCA	GTGAAATGTC	AAAGAGGTAT
1080	TTCATCAGAT	CAAAACTTCC	GCAGTTGCAT	ATTCGTTGAA	AAGCTAAAGC	AATCCAGAAG
1140	TGCTGTTGCA	CAACTGTTCT	CTTGATTTGA	TGCTCCAGCT	CAGGTATCGC	CTTGTTGAAG
1200	AGGTGCTTTC	TTGAAAATGC	AACTGCTACT	TGCTGCTCAA	ACCTTAAAGT	AAAGGCTCAA
1260	TGTTATCGGT	CTGACTACGT	GAAATCGGTA	AGTTTTGAAA	CTAGCCCACA	ACTGGTGAAA
1320	AAAAGCAAAA	ATATCAACAA	ACTGATGAAG	CTTCCATGAA	GCCGTGACTA	CACTCAGAAC
1380	TGAAACTTAC	GTGAATCACT	ATCTGTTGTG	GCTTCCAATC	CGAACGGTAT	GCAATCTTTG
1440	GGCTGGATTG	CTGCTGCATT	GCTCAAGTAT	ATTCGTAGGT	AAGCTGCTGA	GAAGCTGGTA
1500	TATCGGTACT	CAATCTGGGC	GCTTATGAGC	CTCAGTTATC	AAGTTGCTGC	ACTGCTGAAC

			720			
GGTAAATCAG	CTTCACAAGA	CGATGCACAA	AAAATGTGTA	AAGTTGTTCG	TGACGTTGTA	1560
GCTGCTGACT	TTGGTCAAGA	AGTCGCAGAC	AAAGTTCGTG	TTCAATACGG	TGGTTCTGTT	1620
AAACCTGAAA	ATGTTGCTTC	ATACATGGCT	TGCCCAGACG	TTGACGGTGC	CCTTGTAGGT	1680
GGTGCGTCAC	TTGAAGCTGA	AAGCTTCTTG	GCTTTGCTTG	ACTTTGTAAA	ATAATCAGTA	1740
AGTAGCAAAA	GCTAGGTGGA	ACAGCATTCA	GATGTCTGTT	ACATTTTTA	TAGGAGAGAA	1800
AGATTGAAAA	CAAAAATTGG	ATTAGCAAGT	ATCTGTTTAC	TAGGCTTGGC	AACTAGTCAT	1860
GTCGCTGCAA	ATGAAACTGA	AGTAGCAAAA	ACTTCGCAGG	ATACAACGAC	AGCTTCAAGT	1920
AGTTCAGAGC	AAAATCAGTC	TTCTAATAAA	ACGCAAACGA	GCGCAGAAGT	ACAGACTAAT	1980
GCTGCTGCCC	ACTGGGATGG	GGATTATTAT	GTAAAGGATG	ATGGTTCTAA	AGCTCAAAGT	2040
GAATGGATTT	TTGACAACTA	CTATAAGGCT	TGGTTTTATA	TTAATTCAGA	TGGTCGTTAC	2100
TCGCAGAATG	AATGGCATGG	AAATTACTAC	CTGAAATCAG	GTGGATATAT	GGCCCAAAAC	2160
GAGTGGATCT	ATGACAGTAA	TTACAAGAGT	TGGTTTTATC	TCAAGTCAGA	TGGGGCTTAT	2220
GCTCATCAAG	AATGGCAATT	GATTGGAAAT	AAGTGGTACT	ACTTCAAGAA	GTGGGGTTAC	2280
ATGGCTAAAA	GCCAATGGCA	AGGAAGTTAT	TTCTTGAATG	GTCAAGGAGC	TATGATGCAA	2340
AATGAATGGC	TCTATGATCC	AGCCTATTCT	GCTTATTTTT	ATCTAAAATC	CGATGGAACT	2400
TATGCTAACC	AAGAGTGGCA	AAAAGTGGGC	GGCAAATGGT	ACTATTTCAA	GAAGTGGGGC	2460
TATATGGCTC	GGAATGAGTG	GCAAGGCAAC	TACTATTTGA	CTGGAAGTGG	TGCCATGGCG	2520
ACTGACGAAG	TGATTATGGA	TGGTACTCGC	TATATCTTTG	CGGCCTCTGG	TGAGCTCAAA	2580
GAAAAAAAAG	ATTTGAATGT	CGGCTGGGTT	CACAGAGATG	GTAAGCGCTA	TTTCTTTAAT	2640
AATAGAGAAG	AACAAGTGGG	AACCGAACAT	GCTAAGAAAG	TCATTGATAT	TAGTGAGCAC	2700
AATGGTCGTA	TCAATGATTG	GAAAAAGGTT	ATTGATGAGA	ACGAAGTGGA	TGGTGTCATT	2760
GTTCGTCTAG	GTTATAGCGG	TAAAGAAGAC	AAGGAATTGG	CGCATAACAT	TAAGGAGTTA	2820
AACCGTCTGG	GAATTCCTTA	TGGTGTCTAT	CTCTATACCT	ATGCTGAAAA	TGAGACCGAT	2880
GCTGAGAGTG	ACGCTAAACA	GACCATTGAA	CTTATAAAGA	AATACAATAT	GAACCTGTCT	2940
TACCCTATCT	ATTATGATGT	TGAGAATTGG	GAATATGTAA	ATAAGAGCAA	GAGAGCTCCA	3000
AGTGATACAG	GCACTTGGGT	TAAAATCATC	AACAAGTACA	TGGACACGAT	GAAGCAGGCG	3060
GGTTATCAAA	ATGTGTATGT	CTATAGCTAT	CGTAGTTTAT	TACAGACGCG	TTTAAAACAC	3120
CCAGATATTT	TAAAACATGT	AAACTGGGTA	GCGGCCTATA	CGAATGCTTT	AGAATGGGAA	3180
AACCCTCATT	ATTCAGGAAA	AAAAGGTTGG	CAATATACCT	CTTCTGAATA	CATGAAAGGA	3240
ATCCAAGGGC	GCGTAGATGT	CAGCGTTTGG	TATTAAGCGA	TGATTTGAAA	GAGGGATGTG	3300

721

ATAGTAGCAC	CCTCTTTTTC	TTTGTTTTAT	GATAGTTCAT	CCTCGAGTAA	ATTCAAGTTC	3360
TTGCTCGGAA	ATGAAGCTTA	TATAGTAGAT	TGAATATAGA	CAAATACCTT	GTGATTGGTA	3420
AAACATTTTA	GAAATTCATT	TACCTTTCCT	AATCGACTTG	GTTTCATCTT	ATTTCAATCT	3480
ATTATAGTAT	TGGGGAATTT	CTTCAAACCA	CATCAGCTTG	GTCAGTTCTA	CCTGCGACCT	3540
CAAAACTTGT	GCTTTGGTCA	AGCTGGGTTT	AGTTTCCTAG	TTTGCTGATG	GATTTCCATT	3600
GACTATAAGC	ATCCAACCCT	CTTTTTGTCT	TCTAAAGAAT	TCTTAAATTA	TCAGTCTATT	3660
GCAACTTTTC	TCATATAAGT	TCTTTGTCTT	GCTATTGGTT	TTCCTTAGTA	GTATACTAAG	3720
GTAGTAATCA	TTAAGAAGTG	GTTACAAAAA	ATAATGAATG	AGGTAAAGAA	AATGGTAGAA	3780
TTGAAAAAAG	AAGCAGTAAA	AGACGTAACA	TCATTGACAA	AAGCAGCGCC	GG	3832

(2) INFORMATION FOR SEQ ID NO: 93:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10690 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 93:

TGAAAAAATC CTCATGAACC	TGGCGCCAAT	AGACAAGTGT	CTTGTTTCCC	TCACCTTCCT	60
TATAGGCATG GTCAGCTGAC	ACTCGATTGA	AGGGTTTAAC	AGAAACCTTT	GTAATTTCGA	120
CAATGCAGAC AGCCTGATTT	TGACTATCTA	AAATGACATC	GAAGGTCCCT	ACTTGGGGAA	180
GTGGTTCGTC TTCTAGCACA	TAGAGGTCAT	AGGCTGATGC	TGTTGCTGTC	TTTTCTCCTT	240
TAAACACCAA ATCCGCTAAA	AGGTCTGGTT	CAACTCCAAA	AGCCCAGGCA	TCGATTTCAT	300
CTCCGATCAA AGGATTGATT	TGCTTGTATT	TATTCCACAT	TTCTTGCGGT	ATCATGGGTG	360
CTCCTTTGTA ATTTTTTACT	TTCTTCTTTT	ATGTGTTTAA	GATGATCTGG	ATGGTCAATC	420
TCTAAATCAA AAATCTCTGG	AATAGAACTG	TAGTGGATAA	TGCACTTGAT	ACCCAACTGA	480
TTCATTTTTT GTATGAAAGA	AGTATTCAGA	TAGCCTGCTA	CAGCAAAATC	AATCTTGTTC	540
TTTCTTGCTT TATCCTGCAT	ATCTCTTAGC	ATATCTAACA	TTATTGGACT	TTCCATATCA	600
TGCCATTGAC TGTTTCTCAT	AGTCGCAAAA	ACAAAGGAAG	TCAAATCATT	CATTCCAACT	660
ACAATCTTTG AAATGCCCGT	TTCCAGTATA	CTAGATAAGT	CAAAATACGC	TGACGGTAAT	720
TCAATCATCG TTCCGACTTT	CCCAGTAAAA	CCCTGCTGAC	GCAATACTGT	AATAGCTTGT	780
TTTAATTGGT CGGCATCATT	GACAAAAGGA	AAGATAACAG	ATAGATTGGG	GTTGGTTTGA	840

			722			
TAAACTTCTG	TAACGACATG	TGCTTCAGCC	TGAAATTCAT	CCAAACACGC	CAGTAAACGC	900
CTAGTTCCTC	TATAGCCAAA	CAAGGGATGC	CCTTCGTCAA	AAAACTCTTT	AGTCCCCACT	960
AAACAATTGG	CTTCTGTATT	CGTTAATTCA	GTAAAACGAT	ACCAAACTTC	CTTACCTAAG	1020
TAAAAGGAGC	AAATAGTATC	AAGATAATCT	TTCACAAATT	CCTGACAACT	TTGTAATAGT	1080
ATATTTTGAT	TGAGCTCTCT	CAATAAGTAT	TCCCCACGAA	TCATGCCGAC	GTGGTGAAAT	1140
AGTTGAGGAT	AAATTTTTC	AAGAATTTTT	TCGCCACTAA	GGGCAAGTTG	ATTTCTCATC	1200
ATTCACCTTC	CAATTCATGT	AAGAAGTCTT	GTCCAGTTCT	GGAAATCCTA	ATAATTCAGA	1260
CTTAACCTTC	AAGACTAATG	GCGATGCATT	TTCTTCTGTA	ATCTCTTGAA	TATCCATCCA	1320
AATATATCCA	AGTGAATCAT	TCGCACCATC	AGACACAGCT	TCCGAAATCG	TAACTTGAGG	1380
TGCACTCTCA	TTCATTTCAA	CATCATACAA	GGCTATGACA	TGGTGAACCA	TAAAATTTTT	1440
TAACTCTTCC	CTGACGAAAA	CATCGTAGAT	TCGAGGATTA	GAGTAGCTTC	TAACAGTAAA	1500
TCCCGTCTCT	TCCATAACTT	CTCTAGTCAG	CGTTTCCGTC	AGTCCTTCAC	CAAGTTGCTG	1560
ACTGCCTCCA	GGTAGATCAT	ACCGATGTTG	ATAAGGGCCT	CTCGTTTTTT	CAATGCAAAG	1620
TAACTTTCCA	TTTTCAAAGC	AAACACAGTA	GACCCCAAAG	TGATTTTTGA	TTTCCATCCA	1680
ACTCCTCCTA	CTTCAAAGAC	CAGCCACCAT	CTATTGTCAA	GATTTGTCCT	TGCATGGCGC	1740
TCGCTTTTCC	ACTTGCTAAA	AAAAGACTAA	GCTCTGCTAT	TTCCTCTGGC	TCAATCCAGC	1800
GCTTGATTGG	GGTTTCACTA	GCCACCCAGT	CAGCCAAACC	ACCTGGTTCA	AAATCCGCAG	1860
CGGTCATAGC	TGTCTTGACT	GCTCCTGGAG	CGATACCAAA	GACCTGAATC	CCAGCTTCAG	1920
CATAGTCTAG	AGCCAACTGC	TTGGTGAAGC	CAGCCAAGGC	ATGCTTGGAT	GAAGTATAGG	1980
CGTGACCACC	TCCACCTGCT	AGGCTAGAAG	CAATGGAACA	CATATTGATG	ATGATTCCCT	2040
TTTTATTTTC	CAGCATTTGT	GTCAAATAAT	ACCGAGTCAA	CTCTACTGGA	ATAATGTAGT	2100
TGATTTCAAA	AATCTCTTGA	ATGTCCTGCG	CCGTTTGTTC	CAACAGTGGT	TTGTAATCAT	2160
CCAAAACTCC	AGCAGTATTA	CACAAAACAT	CCACCTGAGG	GCACCAGTCA	AAAATAGGTT	2220
CCAAGTCCAA	GGTCAAATCT	CTCTGTAAAA	AGCGAAAATC	ACCCTCTAAG	AGTGGCTTTT	2280
CACCTTGGTC	AACTCCATAA	ACTTGATAGC	CCTTCTCTAA	AAAGAGGCGA	GCTTGAGCCA	2340
ATCCGATCCC	TGAACTCACT	CCTGTAATGA	GTACACGTTT	AGTCATGCAC	TTCTACCCAA	2400
PCCGTTGCCA	AAACATCACA	AACTGTCGGG	CTCCACATGG	AAAAACCTTC	TCCTTCGCCA	2460
GAAACGTTGA	TTAGGAAATA	AGGTGTCATT	TCAAGTGCAA	GCCCATTTTG	CTCGATGGTA	2520
PCAAAGAGTT	GGACATAGTT	TTCCGCACCT	CCCCAACCAG	TTCGTACATA	TTTTCTCTTA	2580
GCCTTTAACC	CAGGCAGGAT	CTCTTCAAAT	GTCATGTTTT	TCTCCTTTAA	TTCTACATTC	2640

TTCATTTAAT	TATAGCAAAA	AACCGCTTTA	TACGGCTTTT	TGAATGTGAG	TTATTCAAAC	2700
CTGCTACTAC	TTACGGCAAA	TTATTCCCTG	CAGCAAGATA	AATTTCATAC	CATTCTTTTC	2760
TTGTTAAGCT	AAAGTTTGCC	GCTCGGCTAA	CTTCTCTCAA	GTGCTTAGGA	TTTGTTGTAC	2820
CTACGACTGC	CTGCATTTTT	GCTGGATAAC	GCAATATCCA	AGAAATGGCA	ATAGTTGAAG	2880
AGGTTACTCC	АТАТТТААТА	GCTAAACGAT	CAAGTACTTG	ATTTAAAGCT	TGAAATTTCT	2940
CATTTCCAAC	AAAATTCCCT	TTAAAATACC	CGAATTGTAA	GACAGACCAT	GCTTGAATGA	3000
CCACATCGTG	TAATTGGCAA	TATTCAAAAA	TGCTGCCATC	TCGCATAGCT	GCTTGACTAT	3060
CTTCCATATT	AACATGAAAA	GCTGATTCAA	ATCCTGGAGT	AAAAGCCGCA	CTCAATTGTA	3120
GCTGATTAAC	AGCTAACGGC	TGCTTGACAT	CTTTTTTAAG	CAACTCCATC	ATCATAGGAT	3180
TTTGATTAGA	AACTCCAAAA	TCTCGAACTT	TACCTTGTTT	ATAAAGGAGA	TTAAAGGCTT	3240
CTGCTACTTG	GTCAGATTCC	ATCAAAGCAT	CTGGTCGATG	AAGGAGCAAG	CTATCTAGAT	3300
GATCAATCTT	CAATCTTTGC	AAAATACCGT	CTACTGATTT	TATAATATAG	TCCTTAGAAA	3360
ААТСААААТА	GGTAAATTCT	TCAATGCGAA	TGCCACATTT	GGACTGAATC	CACATCTTTT	3420
CTCTTAAATC	TGGACGATTT	TTTAGGACAA	GACCTAACAG	TTCTTCACAA	CGACCACGAC	3480
САТАААТАТС	AGCCAAGTCG	AAGGCATTGA	TTCCAACAGA	AAGTGCTGTT	TCTACAAGCT	3540
CTTCAACTTC	TTTTACAGAT	TTATCTTTTA	TTCTCATCAT	TCCGAGAACA	ATTTCTGATA	3600
ATTCTTTGTC	ATCTTGACCA	AGAGTTATGT	ATCTCATCAA	ATTTTTCTCC	TTTAATTTCT	3660
AACATTCTTC	CCTTCATTAT	AACAAAAAAC	CGCTTTGCAA	CGACTTTTTG	ACTATACTTC	3720
ACTCCATTTT	ATCTTCTTAA	ACCCACGGAA	CAAGACAAAG	ATTCCAATAA	AGAGGACAGC	3780
TAAAGGAATA	ACTTTTGTAA	GGAAAACATT	TGAAATTCCC	ATCCACTCAT	AATAACGGAG	3840
CAGAGAACCC	ACCACAAGAT	GGGCAATAAT	CATACTGACA	AATGGACGAA	AGACCGCTTC	3900
TTTCCAATTC	CAAATACCGA	TAACTAGCGA	AATCGTAAAG	ACAGACAAAC	TATCCCAGGG	3960
AGCCGGAATA	TAAAAGGCTC	CTTCTTGTAT	GAAGCTTGCC	ATTCCTACAT	ATCCTAAAAC	4020
AACTAGAAGA	ACTATAGTCC	CAACAACAAT	GTAAGTGCCA	ATTTTCATTT	TAGGAGAATC	4080
TTGGACTAAA	CTTCTTCGTA	AAATTGTGGC	CACAAGTCCA	AATCCAATCA	GAAAAATAAG	4140
AAGTTGCCCT	AAAAATGTGA	GCAAATTGAC	TGTTAAGAGA	GGACCTTTAG	AAAAATCACT	4200
TAGTAGTTGA	TAATAACGTA	ATACCGCCAG	GACAAGAATT	GGCGTCAAAA	GGGACTCTTT	4260
GATAGAACTG	CGAGGTGCTC	CCTTGAGAAT	CTCTTTCATT	ATTTTTTAG	GATTCTTACC	4320
TAGATAATCC	TCTGCACTCA	TGCCATCTCG	TTCTGCTTCT	GAGAAATCTA	GCATCATCAA	4380

			724			
ATAGATCTGC	TCTCTGAGAT	AGTCTTCATC	ATAGAGAAAT	CCAGCAAGAT	TAAAACTTTC	444
CCACAACTCC	TCAAAATACT	TTTGATTCTC	CTCAGAAAAC	TCATGTAGCA	AAGCGCTTGT	450
TTCTTCGTAA	TACTTCATTT	TCTTCATGGT	TTAACCCCCA	TTCTTAATCC	CTTCTACTTT	456
TTGACTCAAA	TCGTCCCATT	GTTGCCAAAA	GACTGAGACA	CGCTCTTCTC	CTTCTTTCAT	462
TAATGAAAAA	TACTTCCGAT	CTGGACCATC	TGGCGACGGG	CGCATGTCGC	CTCTTATCCA	468
TTGATTTTTT	TCTAACTTTT	GCAACAAAGG	ATAAATAGTT	CCTGGAACGA	TAGTATCAAA	4740
TCCAGCCTCT	CGCAAAGTCT	GAACCAACTC	ATAACCATAC	CGCTCTTTTT	GACCAATCAT	4800
ATCCAAGACA	CAACCTTCAA	GAACACCTTT	TAATAGCTGA	GTTTCTTTCA	TCACTTCTCC	4860
CTTCTAATCT	ATTTTGTAAT	ACCTACTAGT	GACTTCACCT	ATAGTATATC	ACTTCTACAC	4920
TAGTTTGTAA	AGCATAATAG	ТТААТАСТСТ	TCGAAAATCT	CTTCAAACCA	CGTCAGCGTC	4980
GCCCTACCGT	ATGTATGGTT	ACTGACTTCG	TCAGTTTCAT	CTACAACCTC	AAAAACATGT	5040
TTTGAGCTGA	CTTCGTCAGT	TTCATCTACA	ACCTCAAAAC	AGTGTTTTGA	GCTGACTTCG	5100
TCAGTTTCAT	CTACAACCTC	AAAACAGTGT	TTTGAGCTGA	CTTCGTCAGT	TTCATCTACA	5160
ACCTCAAAAA	CATGTTTTGA	GCTGACTTCG	TCAGTTTCGT	CTACAACCTC	AAAACAGTGT	5220
TTTGAGCAAC	CTGCGGCTAG	CTTCCTAGTT	TGCTCTTTGA	TTTTCATTGA	GTATAAATAA	5280
AAAAACAGAA	CTAGCCTGAA	CTAGTCCTGT	CTACTTTTAC	CCAATCACAC	TTCCATTTGG	5340
PACAGCTGGA	TCAACTGTGA	GAAGGGTTAA	TTTGCCATCA	TGTTCAGCTG	AGAGAATCAT	5400
ACCCTGGCTG	ACATATTTTT	TCATCATTTT	ACGTGGTT1'G	AGGTTAGCAA	CGATTTGAAC	5460
TTTCTTGCCG	ACCAATTCTT	GTTCATTTGG	ATAGTATTTT	GCAATTCCTG	AAAGAATCTG	5520
ACGATCTTCT	CCATCACCAG	CATCCAAGCG	GAATTGAAGC	AACTTATCTG	AACCTTCTAC	5580
TTTAGACACT	TCTTTGACTT	CTGCGACACG	GATTTCAACC	TTGTCAAAGT	CTTCAAACTT	5640
GATTTCATCC	TTGTTTAGTT	TGAGCTCAAC	TTCGTCCGGA	TTCCATTCTT	TTTCGACTGC	5700
TGGTTTATTG	CCTTCCATTT	GTTCCTTGAT	ATAGGCGATT	TCTTCTTCCA	TATTTAGACG	5760
rggaaagata	GGTGTTCCTT	TGGCAACTAC	AGTCACATCT	GCTGGGAAGT	CAGCCAAACT	5820
CAAGTTTTCA	AGACTAGAAA	CTTCTTCCAA	ACCAAGTTGA	GTCAAAACTG	CACGACTAGT	5880
TTCCATCATA	AATGGTTCAA	TCAAGTGAGC	AACTACACGA	ATGCTGGCTG	CCAAGTGGCT	5940
CATGACACTT	GCCAATTGGT	CACGAAGAGC	TTCATCCTTG	GCCAAGACCC	ATGGTGCGGT	6000
CTCATCGATG	TATTTATTGG	TACGAGAGAT	CAGAGTCCAG	ACTGCTTCAA	GCGCACGTGG	6060
ATAGTCAACT	GCTTCCATGT	GTGTATGGAA	GTCTGCGATT	GATTGTwCTG	CAACCTCAGC	6120
AAGAACATGA	TCATATTCAG	TCACACCTTC	TACATAGGCA	GGGATTTGTC	CATCAAAGTA	6180

CTTATTAATC	ATGGAAACCG	TACGGTTAAG	GAGGTTCCCA	AGGTCATTAG	CCAATTCATA	6240
GTTGATACGG	CCGACATAGT	CTTCAGGAGT	AAAGGTTCCG	TCTGAACCAA	CTGGAAGGTT	6300
ACGCATGAGG	TAGTAACGAA	GTGGATCTAG	TCCATAACGC	TCTACCAACA	TTTCAGGGTA	6360
AACGACATTC	CCTTTTGACT	TAGACATTTT	TCCGTCTTTC	ATGACAAACC	AACCATGGGC	6420
AATCAAACGA	TCAGGTAATT	TAACATCCAA	CATCATAAGA	AGGATTGGCC	AGTAGATAGA	6480
GTGGAAGCGA	AGGATATCTT	TTCCTACCAT	ATGGAAGACT	GTTCCATTCC	AGAACTTGTC	6540
AAAGTTACCA	TGTTCGTCTT	GAGCGTAGCC	AAGAGCTGTC	GCATAGTTAA	GAAGGGCATC	6600
AATCCAAACG	TAGACAACGT	GTTTTGGATT	TGATGGGACA	GGCACTCCCC	ATGTAAAGGT	6660
TGTACGAGAT	ACCGCCAAAT	CTTCCAAGCC	TGGCTCGATG	AAGTTGCGTA	GCATTTCATT	6720
AAGGCGACCA	TCTGGCGTGA	TAAATTCAGG	ATGAGCTTTG	AAAAATTCGA	CCAAACGGTC	6780
TTGGTATTTG	CTAAGGCGAA	GGAAGTATGA	TTCTTCAGAA	ACCCATTCAA	CCTCATGACC	6840
TGATGGAGCA	ATACCACCAG	TCACATTTCC	AGCTTCATCA	CGGAAAACTT	CTGCCAGCTG	6900
GCTTTCTGTA	AAGAATTCTT	CGTCTGATAC	TGAATACCAA	CCAGAGTATT	CACCCAAGTA	6960
GATATCATCT	TGAGCAAGTA	AGCGTTCAAA	GACTTGTGCG	ACAACTTTTT	CATGGTAGTC	7020
ATCAGTTGTA	CGGATAAATT	TATCGTATGA	GATATCTAGT	AATTGCCAGA	GTTCTTTAAC	7080
TCCAACCGCC	ATTCCATCAA	CATAGGCTTG	AGGTGTAATA	CCAGCTTCTT	CCGCTTTCTG	7140
CTGGATTTTC	TGACCATGTT	CATCAAGACC	TGTCAGATAA	AATACATCGT	AGCCCATCAG	7200
GCGTTTGTAA	CGTGCTAGGA	CATCACATGC	GATAGTTGTG	TAGGCAGAAC	CGATATGAAG	7260
TTTCCCAGAT	GGATAGTAAA	TCGGCGTTGT	AATATAAAAA	TTTTTTCAG	ACATAATTTT	7320
TCCTTTCCAG	GCAAATGAAA	CCTGTTTTTC	TAACACTTCA	TTATATCACA	TTTTTAATGA	7380
ATTTCAATAG	GGAAATCCAT	ACAAAAACAA	GATAGACGAG	TGTCCATCTT	GTTGATCTCA	7440
TTCATAACGA	AGGGCTTCAA	TTGGATCAAG	TTTCGATGCC	TTGTTGGCTG	GCAAGACTCC	7500
AAAAATCATA	CCAACACTAG	CCGAAACTGC	AAGACTAAAT	AGGGCGACTG	GGATTGATAC	7560
TCCAACTTCT	ATACCTTCTA	TTAAACCTTG	CAGTAACAAA	CCTGCTAAGg	CAGTTAAACC	7620
ACTTGCAATT	GTCAAGCCAA	TTAAGCCACC	TAACAAGGTC	AAAATCATGG	ATTCAATCAA	7680
AAACTGAATT	AAAATATTGG	CACGTGTTGC	ACCCAAAGCC	TTACGAAGAC	CAATCTCACG	7740
AGTGCGCTCT	GTCACCGAAA	CCAGCATGAT	GTTCATGACA	CCAGTTCCTC	CAACAAAGAG	7800
AGAAATCCCT	GCGATGGAAC	TAATAATCGT	CGTCATAAAA	CTAAACGATT	GTTGAATTTC	7860
TGCAAATACA	ACGGACTCAT	CTGCCACCTG	GTATTCTCCC	TGTTGTAAGC	CTGCAAGCTC	7920

			726			
TGTCATTTTT	CGTGCCAGTT	CTGGACCCAG	AGTTGGGGTT	AAACTGGTAT	CATTCACTCG	7980
AAAGACAATA	TTAGCTATTT	CATCTACATT	AAAATTCGCA	GCAAGGGAGA	TATTGGTAGT	8040
AATAGGCAAG	CCACCAAACC	CATATATTT	TGATCTTTTA	GCCTCCGGAC	TAGTATAAAC	8100
CCCAATGACC	CGGTAACTAA	ATCCATTGAC	TTCTACAACC	TTGTTAATAG	CCTCTTGAGG	8160
AGATTCAAAT	AAACTAATGG	ACAATTCCTC	ATCTAGCAAA	ATGACACTTG	CAAACTCTTT	8220
GAAATCTTGC	TCTCTCAGAC	TACGACCTGC	AATAATTTCA	TTCTTAACAG	CGTCCATGTA	8280
AGTTCTGTTT	CCACCTGTCA	AATTAGCATT	CTCAACCTTT	TTATCTTGAT	AGGTCAAGAT	8340
GGCATTCGTT	GAATTGGTTA	CATAGTAACT	ATCCACTCCC	TTCAGTTTAG	CTGCCTCTTG	8400
GACCCAGGAT	TCTTGCGGTT	TTGGCGGTTC	AACAGGAACT	TCCTCTTCCT	TTCCAGAAAC	8460
CGTAAAAGCT	GATTGTTTCT	GAGTAAAAGA	CCCGTCTTTA	CTTTTTTTAG	GAGAGAAAA	8520
GACGCTAATA	TTTTTCTGAG	ATTTAGTCAT	ATCTTTATTG	ACTTGACGAG	ATAGGGAATC	8580
ACCCAAAGCC	ATAATCACAA	CAACTGATGA	AACACCGATA	ATAATCCCAA	TCATAGTAAG	8640
CAAAGAACGC	ATCTTGTGAG	CCATGATAGA	TGAAAAGGCA	AATTTCAGAT	TCTGCATCTT	8700
AGTTTTCCTC	CTTTCCTAAC	TGAGCACTGT	CAGACGAAAT	GACCCCATCC	CGAATGACAA	8760
TCTGACGTTT	GGCATAGGCA	GCAATCTCAG	GCTCATGCGT	TACCATGATA	ATGGTTTTTC	8820
CTTCTTTATT	CAAATCAACC	AATAATTGCA	TAATTTGGTT	ACCTGTTTTG	GTATCCAAGG	8880
CTCCTGTCGG	TTCATCCGCT	AGGATAATAG	AAGGATTGTT	TACCAAGGCA	CGCGCAATGG	8940
CTACACGTTG	CTTTTGACCA	CCAGATAATT	CTGAAGGTAA	ATGGTGACTA	CGTTCTGTCA	9000
ATTCAACCTT	GTCTAAATAT	TCCTCAGCCA	ACTTGCGACG	TTTTGAAGAC	GAAACTCCTG	9060
CGTAAATCAA	GGGCAATTCT	ACATTTTGCA	GAGCATTGAG	CTTCGATAGA	AGAAAGAACT	9120
GCTGAAAGAC	AAAACCGATT	TGTTGGTTAC	GGACCTTAGC	TAGTTGTTTT	TCACCAAGCC	9180
CAGCCACTTC	TTGACCTTCA	AGATAATATT	CTCCACTGGT	TGGTGTATCC	AACATGCCAA	9240
rcgtattcat	CAGAGTGGAC	TTACCAGACC	CAGATGGTCC	CATGATGGCT	ACAAATTCAC	9300
CCTCATTCAC	TTCTAGATTG	ATATTTTTGA	GAACCTGCAG	TTCTTGGTCA	CCATTACGGT	9360
AACTTCTGAA	GATATTTTTT	AGACTAATTA	GTTGCTTCAT	CAGCCTTCAC	CTCTTTTCCT	9420
PCTTCCAAGG	AAGATGTTGG	ATTACTGATG	ACCTTAGCAC	CGTTCGTTAA	ACCAGAAGTG	9480
ATTTCTTGAT	TTTCTGCGTC	AGCATTTCCC	AATGAAACCT	CAACTTTTTT	AGCCTTTTGT	9540
PGTTCATCCA	CAATCCAGAC	ATAATTTTTA	CTATCATCCA	TTACTAGACT	GCTAACAGGA	9600
ACAAGAATAG	CCTTAGTTTT	GCTTTTAACC	TCAATGTTGA	CAGAAAAACC	TTGTTTCAAA	9660
FCACCAACCT	CGCCTGTCAC	ATCAATAGTA	TAAGGGTATT	TAGAACCTGT	ATTATTCCCG	9720

727

GCTGCTGGAC	TAGCTGCTTC	ACCATTGTTT	TTAGGATAGT	CAGAAATATA	GCTTAATTTC	9780
CCAGTCCATT	TTTTATCAGG	ATACACTTTA	GAAGTAAAGC	TTACTTCTTG	ACCTACAGAA	9840
AGGTTGGCTA	GATTGTACTC	AGACAATTCT	CCCTTGACTT	GTAAATTTTC	ATTGCTGACA	9900
ATATGAACCA	TAACTTGACT	CGCCCCTGTT	GGAGATTTAG	AAACATTGCT	ATTGACTTCG	9960
ACCACAGTTC	CCTCTAGGGT	ACTGAGAACA	GTTGTTGCAT	CCAATTGACT	TTGAGCCTTG	10020
CTTAATTGCG	CCGCAGCATC	TGCACGCGCA	TCACGGGCAT	CACCCAATTG	AGCGTCAATA	10080
GAAGCAACAG	AATTTCCAGC	CACTGGAGTT	GGGCTTTGCA	CCGTTGCATC	TTCTCCTCCT	10140
ACTGGCGCTG	GTAACTGTGG	AGCCGGAGCT	GAAGCGGCTT	CATTTCGTGC	TTGATTGAGT	10200
TCATTGATAT	GACGATCTGC	CCTAGCTACT	GCTCGACTAG	CTGAATCATA	GGCCGCCTGC	10260
GCTTCTGAAC	TACTGTACTT	GACTAAAGCC	TGCCCTTCGC	TGACCTTATC	GCCCACAGAA	10320
ACAAGGATTT	CATCTAAATC	ACCCTTACTA	GCATCAAAAT	AAACATATTG	TTCATTTTTT	10380
GCTGTTACTG	TCCCTGACAA	TAAAACAGAG	GAGGCCACGC	TTCCTTCCTT	GGCAACAACA	10440
AGATGAGTAG	GCTCATCTTT	TAGAGCAGTC	TGAGAAGGTT	GTCTAAAGAG	TAAAATCCCC	10500
CCAGCACCCA	ATACAACTAC	ACTCGCAGCA	CCGATTGCTG	CATACAGTTG	CCACTTTTTA	10560
GCTTTACCAT	TCTTTTTCTT	CATAATGAAA	CTCCTTTTCT	ТТТТТАСААТ	ACTTTGCTAT	10620
TATACCAAAT	TTCCCTCCAG	CAAACAATAC	AGTTCAGGAT	TAAACAATCG	TTCGGAATTT	10680
TGCTTTTCGG						10690

(2) INFORMATION FOR SEQ ID NO: 94:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 8195 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:

GAGAAAGC	CGC	CCACGTTTCC	CCGAAGGGAG	AAAGGCGGAC	AGGTATCCGG	TAAGCGGCCA	60
GGGTCGGA	AC	AGGAGAGCGC	AACGAGGGAG	CTTCCCAGGG	GGAAACGCCT	GGTATCTTTA	120
TAGTCCTG	TC	GGGTTTCGCC	ACCTCTGACT	TGAGCGTCGA	TTTTTGTGAT	GCTCGTCAGG	180
GGGGCGGA	.GC	CTATGGAAAA	ACGCCAGCAA	CGCGGCCTTT	TTACGGTTCC	TGGCCTTTTG	240
CTGGCCTT	TT	GCTCACATGT	TCTTTCCTGC	GTTATCCCCT	GATTCTGTGG	ATAACCGTAT	300
TACCGCCT	тт	GAGTGAGCTG	ATACCGCTCG	CCGCAGCCGA	ACGACCGAGC	GCAGCGAGTC	360

			728			
AGTGAGCGAG	GAAGCGGAAG	AGCGCCCAAT	ACGCAAACCG	CCTCTCCCCG	CGCGTTGGCC	420
GATTCATTAA	TGCAGCTGGC	ACGACAGGTT	TCCCGACTGG	AAAGCGGGCA	GTGAGCGCAA	480
CGCAATTAAT	GTGAGTTAGC	TCACTCATTA	GGCACCCCAG	GCTTTACACT	TTATGCTTCC	540
GGCTCGTATG	TTGTGTGGAA	TTGTGAGCGG	ATAACAATTT	CACACAGGAA	ACAGCTATGA	600
CaTGATTACG	AATTCGAGCT	CGGTACCCGG	AAAATCCAGA	AAATGCTTGA	AAAAAATCCT	660
AGAAGATGGT	АТААТАСТАА	ATTGTAAGGG	TTATCACATA	ТААСТСАААА	AAAGAAAGAA	720
CAAAAGGAGA	GTCAAACTAT	GGCTTCTAAA	GATTTCCACG	TAGTGGCAGA	AACAGGTATT	780
CACGCACGTC	CAGCAACATT	GTTGGTACAA	ACTGCTAGCA	AATTTGCTTC	AGATATCACT	840
CTTGAGTACA	AAGGTAAATC	AGTTAACCTT	АААТСААТТА	TGGGTGTTAT	GAGTCTTGGT	900
GTTGGCCAAG	GTGCTGACGT	AACTATCTCA	GCTGAAGGTG	CAGATGCAGA	TGACGCTATC	960
GCTGCAATCT	CAGAAACAAT	GGAAAAAGAA	GGATTGGCAT	AAGGGAAATG	ACAGAAATGC	1020
PTAAAGGAAT	CGCAGCATCT	GACGGTGTTG	CAGTTGCAAA	AGCATATCTA	CTCGTTCAGC	1080
CGGATTTGTC	ATTTGAGACT	ATTACAGTCG	AAGATACAAA	CGCAGAAGAA	GCTCGCCTTG	1140
ATGCCGCTCT	ACAGGCATCA	CAAGACGAGC	TTTCTGTTAT	TCGCGAGAAA	GCAGTAGGTA	1200
CGCTCGGTGA	AGAAGCAGCT	CAAGTTTTTG	ATGCTCACTT	AATGGTTCTT	GCTGACCCAG	1260
AAATGATCAG	CCAAATCAAG	GAAACTATCC	GTGCGAAGAA	AGTGAATGCA	GAAGCAGGTC	1320
rgaaagaagt	TACAGATATG	TTTATCACTA	TCTTTGAAGG	CATGGAAGAC	AACCCATACA	1380
rgcaagaacg	CGCAGcGGAT	wTCCGCGACG	TGACAAAACG	TGTATTGGCA	AACCTTCTTG	1440
TAAAAAATT	GCCAAACCCA	GCTTCTATCA	ATGAAGAAGT	GATTGTGATT	GCGCATGACT	1500
GACTCCTTC	AGATACAGCT	CAATTGGACA	AAAACTTTGT	AAAAGCTTTT	GTAACCAACA	1560
TTGGTGGACG	TACAAGCCAC	TCAGCTATCA	TGGCACGTAC	ACTTGAAATT	GCTGCTGTAT	1620
TAGGTACAAA	TAACATCACT	GAAATCGTTA	AAGACGGTGA	CATCCTTGCT	GTTAACGGGA	1680
CACTGGAGA	AGTGATTATC	AACCCAACAG	ATGAACAAGC	GGCAGAATTT	AAAGCAGCTG	1740
FTGAAGCCTA	TGCGAAACAA	AAAGCTGAAT	GGGCACTTTT	GAAAGATGCT	CAAACAGTGA	1800
CTGCTGACGG	TAAACACTTC	GAGTTGGCTG	CTAATATCGG	TACTCCAAAA	GACGTTGAAG	1860
TGTTAACAA	CAACGGTGCA	GAAGCTGTTG	GACTTTACCG	TACAGAGTTC	TTGTACATGG	1920
ATTCTCAAGA	CTTCCCAACT	GAAGATGAGC	AGTATGAAGC	ATACAAGGCT	GTTCTTGAAG	1980
SAATGAACGG	TAAACCTGTT	GTCGTTCGTA	CAATGGATAT	CGGTGGAGAT	AAGGAACTTC	2040
CTTACTTCGA	TATGCCTCAC	GAAATGAACC	CATTCCTTGG	ATTCCGTGCT	CTTCGTATCT	2100
TATCTCTGA	GACTGGAGAT	GCTATGTTCC	GCACACAAAT	CCGTGCTCTT	CTTCGTGCGT	2160

CTGTTCACGG	TCAATTGCGT	ATCATGTTCC	CAATGGTTGC	GCTCTTGAAA	GAATTCCGTG	2220
CAGCGAAAGC	AGTCTTTGAT	GAAGAAAAAG	CAAACCTTCT	TGCTGAAGGT	GTTGCAGTTG	2280
CGGATAACAT	CCAAGTTGGT	ATCATGATCG	AGATTCCTGC	AGCGGCTATG	CTTGCAGACC	2340
AATTTGCTAA	AGAAGTTGAC	TTCTTCTCAA	TTGGTACAAA	CGACTTGATC	CAATATACAA	2400
TGGCAGCAGA	CCGTATGAAC	GAACAAGTTT	CATACCTTTA	CCAACCATAC	AACCCATCAA	2460
TCCTACGCTT	GATTAACAAT	GTGATCAAAG	CAGCTCACGC	TGAAGGTAAA	TGGGCTGGTA	2520
TGTGTGGTGA	GATGGCTGGT	GACCAACAAG	CTGTTCCACT	TCTTGTCGGA	ATGGGCTTGG	2580
ATGAGTTCTC	TATGTCAGCA	ACATCTGTAC	TTCGTACACG	CAGCTTGATG	AAGAAACTCG	2640
ACACAGCTAA	GATGGAAGAG	TACGCAAACC	GTGCCCTTAC	AGAATGCTCA	ACAATGGAAG	2700
AAGTTCTTGA	ACTTCAAAAA	GAATACGTTA	ATTTTGATTA	ATCGAAAAGT	CCCTGCAACT	2760
CAGTTACAGG	GATTTTTTG	ATATTTTAAA	AAGAATTTTC	AAGAAAATCT	TTCTTATAGA	2820
AAGTCCAACC	TTGAAAAAGT	AGTGGTCAGA	АСААААААТА	CTTAAATGGT	TCATAAAATT	2880
CTTGACAAGT	TGGATATTTA	GGAGTAAACT	ATTAACCAGT	TAAGTAATAG	AGAGGAGTTT	2940
CTGCAATTTA	GAAATGAATT	GCAACTAGAA	ATATCAAATA	GAAAGAGAGT	TTCGATGAAA	3000
ATTAATAAGA	AATACCTTGT	TGGTTCTGCG	GCACTTTGAT	TTTAAGTGTT	TGTTCTTACG	3060
AGTTGGGACT	GTATCAAGCT	AGAACGGTTA	AGGAAAATAA	TCGTGTTTCC	TATATAGATG	3120
GAAAACAAGC	GACGCAAAAA	ACGGAGAATT	TGACTCCTGA	TGAGGTTAGC	AAGCGTGAAG	3180
GAATCAATGC	TGAGCAAATC	GTCATCAAGA	TAACAGACCA	AGGCTATGTC	ACTTCACATG	3240
GCGACCACTA	TCATTATTAC	AATGGTAAGG	TTCCTTATGA	CGCTATCATC	AGTGAAGAAT	3300
TACTCATGAA	AGATCCAAAC	TATAAGCTAA	AAGATGAGGA	TATTGTTAAT	GAGGTCAAGG	3360
GTGGATATGT	TATCAAGGTA	GATGGAAAAT	ACTATGTTTA	CCTTAAGGAT	GCTGCCCACG	3420
CGGATAACGT	CCGTACAAAA	GAGGAAATCA	ATCGACAAAA	ACAAGAGCAT	AGTCAACATC	3480
GTGAAGGTGG	AACTCCAAGA	AACGATGGTG	CTGTTGCCTT	GGCACGTTCG	CAAGGACGCT	3540
ATACTACAGA	TGATGGTTAT	ATCTTTAATG	CTTCTGATAT	CATAGAGGAT	ACTGGTGATG	3600
CTTATATCGT	TCCTCATGGA	GATCATTACC	ATTACATTCC	TAAGAATGAG	TTATCAGCTA	3660
GCGAGTTGGC	TGCTGCAGAA	GCCTTCCTAT	CTGGTCGAGG	AAATCTGTCA	AATTCAAGAA	3720
CCTATCGCCG	ACAAAATAGC	GATAACACTT	CAAGAACAAA	CTGGGTACCT	TCTGTAAGCA	3780
ATCCAGGAAC	TACAAATACT	AACACAAGCA	ACAACAGCAA	CACTAACAGT	CAAGCAAGTC	3840
AAAGTAATGA	CATTGATAGT	CTCTTGAAAC	AGCTCTACAA	ACTGCCTTTG	AGTCAACGAC	3900

730 ATGTAGAATC TGATGGCCTT GTCTTTGATC CAGCACAAAT CACAAGTCGA ACAGCTAGAG 3960 GTGTTGCAGT GCCACACGGA GATCATTACC ACTTCATCCC TTACTCTCAA ATGTCTGAAT 4020 TGGAAGAACG AATCGCTCGT ATTATTCCCC TTCGTTATCG TTCAAACCAT TGGGTACCAG 4080 ATTCAAGGCC AGAACAACCA AGTCCACAAC CGACTCCGGA ACCTAGTCCA GGCCCGCAAC 4140 CTGCACCAAA TCTTAAAATA GACTCAAATT CTTCTTTGGT TAGTCAGCTG GTACGAAAAG 4200 TTGGGGAAGG ATATGTATTC GAAGAAAAGG GCATCTCTCG TTATGTCTTT GCGAAAGATT 4260 TACCATCTGA AACTGTTAAA AATCTTGAAA GCAAGTTATC AAAACAAGAG AGTGTTTCAC 4320 ACACTTTAAC TGCTAAAAAA GAAAATGTTG CTCCTCGTGA CCAAGAATTT TATGATAAAG 4380 CATATAATCT GTTAACTGAG GCTCATAAAG CCTTGTTTGA AAATAAGGGT CGTAATTCTG 4440 ATTTCCAAGC CTTAGACAAA TTATTAGAAC GCTTGAATGA TGAATCGACT AATAAAGAAA 4500 AATTGGTAGA TGATTTATTG GCATTCCTAG CACCAATTAC CCATCCAGAG CGACTTGGCA 4560 AACCAAATTC TCAAATTGAG TATACTGAAG ACGAAGTTCG TATTGCTCAA TTAGCTGATA 4620 AGTATACAAC GTCAGATGGT TACATTTTTG ATGAACATGA TATAATCAGT GATGAAGGAG 4680 ATGCATATGT AACGCCTCAT ATGGGCCATA GTCACTGGAT TGGAAAAGAT AGCCTTTCTG 4740 ATAAGGAAAA AGTTGCAGCT CAAGCCTATA CTAAAGAAAA AGGTATCCTA CCTCCATCTC 4800 CAGACGCAGA TGTTAAAGCA AATCCAACTG GAGATAGTGC AGCAGCTATT TACAATCGTG 4860 TGAAAGGGGA AAAACGAATT CCACTCGTTC GACTTCCATA TATGGTTGAG CATACAGTTG 4920 AGGTTAAAAA CGGTAATTTG ATTATTCCTC ATAAGGATCA TTACCATAAT ATTAAATTTG 4980 CTTGGTTTGA TGATCACACA TACAAAGCTC CAAATGGCTA TACCTTGGAA GATTTGTTTG 5040 CGACGATTAA GTACTACGTA GAACACCCTG ACGAACGTCC ACATTCTAAT GATGGATGGG 5100 GCAATGCCAG TGAGCATGTG TTAGGCAAGA AAGACCACAG TGAAGATCCA AATAAGAACT 5160 TCAAAGCGGA TGAAGAGCCA GTAGAGGAAA CACCTGCTGA GCCAGAAGTC CCTCAAGTAG 5220 AGACTGAAAA AGTAGAAGCC CAACTCAAAG AAGCAGAAGT TTTGCTTGCG AAAGTAACGG 5280 ATTCTAGTCT GAAAGCCAAT GCAACAGAAA CTCTAGCTGG TTTACGAAAT AATTTGACTC 5340 TTCAAATTAT GGATAACAAT AGTATCATGG CAGAAGCAGA AAAATTACTT GCGTTGTTAA 5400 AAGGAAGTAA TCCTTCATCT GTAAGTAAGG AAAAAATAAA CTAATGAAAA ATGAAAGTCT 5460 CGATAAAGAG GCTTTCATTT TTATTATGTA TATATGTAAA ATTCTTGACA AGCAATATTA 5520 AAAAGAGTAA ACTATTAACT AGTTAATTAA CCGGTTTATT ACTTTATAGT GAATCAAATA 5580 TACTTAAGAA AAGAGGAAAG AATGAAAATT AATAAAAAAT ATCTAGCAGG TTCAGTGGCA 5640 GTCCTTGCCC TAAGTGTTTG TTCCTATGAA CTTGGTCGTC ACCAAGCTGG TCAGGTTAAG 5700

AAAGAGTCTA	ATCGAGTTkC	TTATATAGAT	GGTGATCAGG	CTGGTCAAAA	GGCAGAAAAC	5760
TTGACACCAG	ATGAAGTCAG	TAAGAGGGAG	GGGATCAACG	CCGAACAAAT	CGTCATCAAG	5820
ATTACGGATC	AAGGTTATGT	GACCTCTCAT	GGAGACCATT	ATCATTACTA	TAATGGCAAG	5880
GTCCCTTATG	ATGCCATCAT	CAGTGAAGAG	CTCCTCATGA	AAGATCCGAA	TTATCAGTTG	5940
AAGGATTCAG	ACATTGTCAA	TGAAATCAAG	GGTGGTTATG	TTATCAAGGT	AGATGGAAAA	6000
TACTATGTTT	ACCTTAAGGA	TGCAGCTCAT	GCGGATAATA	TTCGGACAAA	AGAAGAGATT	6060
AAACGTCAGA	AGCAGGAACA	CAGTCATAAT	CACGGGGGTG	GTTCTAACGA	TCAAGCAGTA	6120
GTTGCAGCCA	GAGCCCAAGG	ACGCTATACA	ACGGATGATG	GTTATATCTT	CAATGCATCT	6180
GATATCATTG	AGGACACGGG	TGATGCTTAT	ATCGTTCCTC	ACGGCGACCA	TTACCATTAC	6240
ATTCCTAAGA	ATGAGTTATC	AGCTAGCGAG	TTAGCTGCTG	CAGAAGCCTA	TTGGAATGGG	6300
AAGCAGGGAT	CTCGTCCTTC	TTCAAGTTCT	AGTTATAATG	CAAATCCAGC	TCAACCAAGA	6360
TTGTCAGAGA	ACCACAATCT	GACTGTCACT	CCAACTTATC	ATCAAAATCA	AGGGGAAAAC	6420
ATTTCAAGCC	TTTTACGTGA	ATTGTATGCT	AAACCCTTAT	CAGAACGCCA	TGTGGAATCT	6480
GATGGCCTTA	TTTTCGACCC	AGCGCAAATC	ACAAGTCGAA	CCGCCAGAGG	TGTAGCTGTC	6540
CCTCATGGTA	ACCATTACCA	CTTTATCCCT	TATGAACAAA	TGTCTGAATT	GGAAAAACGA	6600
ATTGCTCGTA	TTATTCCCCT	TCGTTATCGT	TCAAACCATT	GGGTACCAGA	TTCAAGACCA	6660
GAACAACCAA	GTCCACAATC	GACTCCGGAA	CCTAGTCCAA	GTCCGCAACC	TGCACCAAAT	6720
CCTCAACCAG	CTCCAAGCAA	TCCAATTGAT	GAGAAATTGG	TCAAAGAAGC	TGTTCGAAAA	6780
GTAGGCGATG	GTTATGTCTT	TGAGGAGAAT	GGAGTTTCTC	GTTATATCCC	AGCCAAGGAT	6840
CTTTCAGCAG	AAACAGCAGC	AGGCATTGAT	AGCAAACTGG	CCAAGCAGGA	AAGTTTATCT	6900
CATAAGCTAG	GAGCTAAGAA	AACTGACCTC	CCATCTAGTG	ATCGAGAATT	TTACAATAAG	6960
GCTTATGACT	TACTAGCAAG	AATTCACCAA	GATTTACTTG	ATAATAAAGG	TCGACAAGTT	7020
GATTTTGAGG	CTTTGGATAA	CCTGTTGGAA	CGACTCAAGG	ATGTCyCAAG	TGATAAAGTC	7080
AAGTTAGTGG	ATGATATTCT	TGCCTTCTTA	GCTCCGATTC	GTCATCCAGA	ACGTTTAGGA	7140
AAACCAAATG	CGCAAATTAC	CTACACTGAT	GATGAGATTC	AAGTAGCCAA	GTTGGCAGGC	7200
AAGTACACAA	CAGAAGACGG	TTATATCTTT	GATCCTCGTG	ATATAACCAG	TGATGAGGGG	7260
GATGCCTATG	TAACTCCACA	TATGACCCAT	AGCCACTGGA	TTAAAAAAGA	TAGTTTGTCT	7320
GAAGCTGAGA	GAGCGGCAGC	CCAGGCTTAT	GCTAAAGAGA	AAGGTTTGAC	CCCTCCTTCG	7380
ACAGACCATC	AGGATTCAGG	AAATACTGAG	GCAAAAGGAG	CAGAAGCTAT	CTACAACCGC	7440

			732			
GTGAAAGCAG	CTAAGAAGGT	GCCACTTGAT	CGTATGCCTT	ACAATCTTCA	ATATACTGTA	7500
GAAGTCAAAA	ACGGTAGTTT	AATCATACCT	CATTATGACC	ATTACCATAA	CATCAAATTT	7560
GAGTGGTTTG	ACGAAGGCCT	TTATGAGGCA	CCTAAGGGGT	ATACTCTTGA	GGATCTTTTG	7620
GCGACTGTCA	AGTACTATGT	CGAACATCCA	AACGAACGTC	CGCATTCAGA	TAATGGTTTT	7680
GGTAACGCTA	GCGACCATGT	TCGTAAAAAT	AAGGTAGACC	AAGACAGTAA	ACCTGATGAA	7740
GATAAGGAAC	ATGATGAAGT	AAGTGAGCCA	ACTCACCCTG	AATCTGATGA	AAAAGAGAAT	7800
CACGCTGGTT	TAAATCCTTC	AGCAGATAAT	CTTTATAAAC	CAAGCACTGA	TACGGAAGAG	7860
ACAGAGGAAG	AAGCTGAAGA	TACCACAGAT	GAGGCTGAAA	TTCCTCAAGT	AGAGAATTCT	7920
GTTATTAACG	CTAAGATAGC	AGATGCGGAG	GCCTTGCTAG	AAAAAGTAAC	AGATCCTAGT	7980
ATTAGACAAA	ATGCTATGGA	GACATTGACT	GGTCTAAAAA	GTAGTCTTCT	TCTCGGAACG	8040
AAAGATAATA	ACACTATTTC	AGCAGAAGTA	GATAGTCTCT	TGGCTTTGTT	AAAAGAAAGT	8100
CAACCGGCTC	CTATACAGTA	GTAAAATGAA	TGGAGCATAT	TTTATGGAGA	AGTAACCTTT	8160
CGTGTTACTT	CTCTTTTTTA	GAAAAACGTA	ACAGA			8195

(2) INFORMATION FOR SEQ ID NO: 95:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2004 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 95:

TTTACTAAAA	GGAAAAAAGA	ACTGATTTCT	CAGTCCTTCA	TTAATCTTAT	TCCACACTAA	60
ATAGGTATGG	GTAAACAGGT	TGTTGACCTT	GGTGAATCTC	GACTTCAACG	TCTTCGAATT	120
CTTCTACGAT	TTCTTGAGCG	ATTTCATTGG	CAAGTTCTTC	GCTTCCGTCT	TCACCTACAT	180
AGAAGGTTAC	GATTTCACTG	TCTTCATCCA	ACATATGTTT	CAAGGTTTCA	GTCAATGT IT	240
GGTGCATATC	AGGGTTTGAC	ACAAGAATTT	TTCCATCCAC	CATACCTAAA	TTATCGTTTT	300
CATGGATTTC	TAAGCCATCG	ATCGTTGTAT	CACGCACGGC	TGTTGTGACG	CTTCCGCTAA	360
CGACATCGCT	AAGAGCAGCT	GTCATACGCT	CTTGGTTTTC	TTCAATGGAC	TTGCTTGGAT	420
CAAAGGCAAG	AAGACTTGTC	ATACCTTGAG	GAAGAGTGCG	AGCCTCTACC	ACTACCGCTG	480
GTTGCTCCAA	AACTTCTGCC	GCAGATTGAG	CTGCCATGAA	GATGTTCTTG	TTGTTTGGCA	540
AGAAGATGAT	GTTACGGGCA	TTAACCTGTT	CAACAGCCTT	GATAAAGTCT	TCTGTTGAAG	600
GGTTCATGGT	TTGACCGCCT	TCGATAACAT	AATCCACGCC	TTGAGAACAG	AAGATATCTG	660

733

CTAGACCTTT	ACCAGCCACC	ACAGCAATCA	AAGCATACTC	ТТТТТСТТСА	GCCGACTTGA	720
TAACTTGAGT	AGCTTCTTTC	TCAACCTGTG	CTTCGTGTTG	GTTACGCATA	TTGTCAACTT	780
TTACCTTGAC	CAAGCTACCA	TATTTGAGAC	CTTCTTGCAT	AACAAGTCCT	GGATCTTCTG	840
TATGAACATG	GACTTTGACA	ATTTCATCAT	CGTTAACAAC	AAGGAGAGAA	TCTCCAAGCT	900
CATCCAAGTA	GTTACGGAAT	TCATCGTAGT	CAAAATCTTT	AGCATAGGTT	GGACCTTGCT	960
TAAGAGCTAC	CATGATTTCA	GTACAGTAAC	CAAACGTGAT	GTCCTCAGTC	GCTACGTGAC	1020
CAGCTACAGA	CTTATGATGC	TCTACATTGA	TCATCTCACT	CATGTTGGCA	GGAGTCGCTA	1080
CAAAGTCCTC	AGATGCAATA	TATTCGCCAG	TAAGGGCTGA	AAGGAAACCT	TCGTAGATGA	1140
AGACCAATCC	TTGACCACCT	GAGTCCACAA	CGCCAACTTC	TTTCAATACT	GGAAGCATGT	1200
CTGGTGTTTT	AGCTAGAGCT	GTTTTAGCAC	CTTCCAAGGC	TGCGCGCATG	ACTTCAACAG	1260
CGTCATCTGT	TTGCTCAGCT	TTTTTCTTAG	CACCGATAGC	AGCTCCACGA	GAAACTGTTA	1320
AAATCGTTCC	TTCAACAGGT	TTCATCACTG	CCTTATAGGC	AACTTCCACA	CCTGATTGGA	1380
AGGCCAGAGC	CAAGTCTTGA	CCTGTTAACT	CGTCTTTATC	CTTGATAGCT	TGGGAAAATC	1440
CACGGAAAAG	CTGAGACGTA	ATCACTCCTG	AGTTCCCACG	CGCACCCATC	AAAAGCCCTT	1500
TGGCAAGAAT	GCTCGCTACT	TCTCCAACTG	TAGAAGCTGG	CTTGTCTGCA	ACTTCTTTAG	1560
CACCATTTTC	AATGGTCATT	CCCATATTTG	TCCCAGTATC	TCCATCTGGA	ACTGGAAAGA	1620
CGTTTAATGA	ATTGACATAT	TCAGCTTGCT	TATTCAAGCG	AGTTGATGCA	GCCTGCACCA	1680
TTTCTTGAAA	TAAGCTAGTA	GTAATTTTTG	ACACGGTTAT	TCTCCTACAA	CTTTGATATT	1740
TTGAATGTAG	ACATTTACAG	TCTGAGCAGT	AATTCCAAGC	TGGTTTTCCA	AGCTAAAGGC	1800
AACACGCTCT	TGAATGTTTT	TTGACACTTC	ACTAATCTTT	GTTCCGTAGC	TTAACACGGT	1860
ATATACATCA	ACTGCAATAC	TGCCATCTTC	GGCTGCCTTT	ACGACGACAC	CTTTAGAATA	1920
ATTTTCCTTA	CCTAGCAGGG	CTTGGAAATT	ATCTTTGAGG	GCATTTTTAC	TAGCCATACC	1980
GACCACACCA	GAAATCTCAG	TTGC				2004

(2) INFORMATION FOR SEQ ID NO: 96:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 11915 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 96:

CCGGGTTGGG	CTGTTCGCCC	ATTAAAGCGG	734 CACCACAGCT	GGGTTCAGAA	CGTCGTGAGA	60
CAGTTCGGTC	CCTATCCGTC	GCGGGCGTAG	GAAATTTGAG	AGGATCTGCT	CCTAGTACGA	120
GAGGACCAGA	GTGGACTTAC	CGCTGGTGTA	CCAGTTGTCT	TGCCAAAGGC	ATCGCTGGGT	180
AGCTATGTAG	GGAAGGGATA	AACGCTGAAA	GCATCTAAGT	GTGAAACCCA	CCTCAAGATG	240
AGATTTCCCA	TGATTATATA	TCAGTAAGAG	CCCTGAGAGA	TGATCAGGTA	GATAGGTTAG	300
AAGTGGAAGT	GTGGCGACAC	ATGTAGCGGA	СТААТАСТАА	TAGCTCGAGG	ACTTATCCAA	360
AGTAACTGAG	AATATGAAAG	CGAACGGTTT	TCTTAAATTG	AATAGATATT	CAATTTTGAG	420
TAGGTATTAC	TCAGAGTTAA	GTGACGATAG	CCTAGGAGAT	ACACCTGTAC	CCATGCCGAA	480
CACAGAAGTT	AAGCCCTAGA	ACGCCGGAAG	TAGTTGGGGG	TTGCCCCCTG	TGAGATAGGG	540
AAGTCGCTTA	GCTCTAGGGA	GTTTAGCTCA	GCTGGGAGAG	CATCTGCCTT	ACAAGCAGAG	600
GGTCAGCGGT	TCGATCCCGT	TAACTCCCAT	TTTAGCGGGT	GTAGTTTAGT	GGTAAAACTA	660
CAGCCTTCCA	AGCTGTTGTC	GCGAGTTCGA	TTCTCGTCAC	CCGCTTTGAA	CTTTGTTCTT	720
TGTACCAAGT	TTTTGACTTG	GGCGCGTAGC	TCAGGTGGTT	AGAGCGCACG	CCTGATAAGC	780
GTGAGGTCGG	TGGTTCGAGT	CCACTCGTGC	CCATAGTGTT	TAGTCCATTA	CTAGGGGATT	840
GGAATATTAT	CTGTTCACTA	AGAGGACACG	GGCTTGTTCC	CGTATAAACT	ATTTTGGAGG	900
ATTACCCAAG	TCCGGCTGAA	GGGAACGGTC	TTGAAAACCG	TCAGGCGTGT	AAAAGCGTGC	960
GTGGGTTCGA	ATCCCACATC	CTCCTTTTAT	ATTAACGCGG	GATGGAGCAG	CTCGGTAGCT	1020
CGTCGGGCTC	ATAACCCGAA	GGTCGTAGGT	TCAAATCCTG	CTCCCGCAAT	AAGGCTCGGT	1080
AGCTCAGTTG	GTAGAGCAAT	GGATTGAAGC	TCCATGTGTC	GGCGGTTCGA	TTCCGTCTCG	1140
CGCCATTTAT	ATATTTTGGA	AGGGTAGCGA	AGAGGCTAAA	CGCGGCGGAC	TGTAAATCCG	1200
CTCCTTCGGG	TTCGGGGGTT	CGAATCCCTC	CCCTTCCATT	TTACGGGCAT	AGTTTAAAGG	1260
TAGAACTAAG	GTCTCCAAAA	CCTTCAGTGT	GGGTTCAATT	CCTACTGCCC	GTGTTAATAG	1320
AATTATGGCG	GGTGTGGTGA	AGTGGTTAAC	ACACCAGATT	GTGGCTCTGG	CATGCGTGGG	1380
TTCGATCCCC	ATCACTCGCC	TATTTTATAT	TGGGGTATAG	CCAAGCGGTA	AGGCAAGGGA	1440
CTTTGACTCC	CTCATGCGTT	GGTTCGAATC	CAGCTACCCC	AGTTACTATT	TGCCGGCGTG	1500
GCGGAATTGG	CAGACGCGCT	GGACTCAAAA	TCCAGTGTCC	GCAAGGACGT	GCCGGTTCGA	1560
CCCCGGCCGC	CGGTATAGTA	TAGTGTTAGG	AACGTTGTTA	TTCTTCGTTC	СТТТТТТАТА	1620
TTATTTTTGG	ТАТААТТАТА	GTTATTCAAA	TTTTATTTAG	ATTAAGAAAG	TGTAGGGGAG	1680
TATGTCTTGT	TCTATCGATT	таттааааса	TCGGTATTTG	ААААТАТТА	AAGAAAATCC	1740
TGAATTGTTT	GTCGGAATTG	AGTTGGAGTA	TCCTGTTGCA	AGTTTAGAAG	GGGATGCTAC	1800

AGATGTTGAA	GTTATGAAGG	ATCTATTTCA	TTATTTAGTT	TCTACTTTGG	ATCTCACCGT	1860
AGCAAAGGTA	GATGATTTTG	GCAATCTGAT	CCAGTTAGTA	GATCCGATAA	GTCAGGATGC	1920
TATTTTATTT	GAAGTTTCCT	ATACAACGAT	TGAGTTTGCA	TTTGGTAAGG	CTGAAACGAT	1980
TCAAGAGGTC	GAAAATCGTT	TCAATAATTA	TATGAATGTA	ATTCAGAGAA	AGTTAGCTGA	2040
ATCAAATCAT	GCTATTGTTG	GCTGTGGTAT	CCATCCCAAC	TGGGATAAAA	ATGAGAATTG	2100
TCCAGTGGCT	TATCCACGCT	ATCAGATGTT	GATGGATTAT	TTGAATTTGA	GTAGAAATAT	2160
ГАТТАААТСА	GATTTACATC	ATTTCCCTGA	ATATGGTACT	TTTATCTGTG	GGAGCCAGGT	2220
TCAGCTGGAT	ATTTCAAAAA	CCAACTACTT	ACGGGTGATT	AATGCTTTTA	CTCAAATTGA	2280
AGCGGCTAAG	GCTTATTTAT	TTGCAAACTC	TGAATTTTCG	GGTGCGGATT	GGGATACGAA	2340
AATTTCAAGG	GATATTTTCT	GGGAAGAATC	TATGCATGGT	ATCTATCCAG	AGAATGTTGG	2400
GGTCAATGCT	AGACTCCTTA	ATGATGAAAC	TGATTTTTT	GACTATCTAA	ATCATTCTGC	2460
GATTTTTACT	GCGGAACGTG	ATGGGCAGAC	CTATTATTTT	TATCCTATTC	AGGCTGGGGA	2520
CTATTTGGCT	ACGTCCGAAA	TCCAAGCATT	TGCTCTGAAT	GGGGATGAGG	ТТАТТАТТТА	2580
CCCCAAGAG	AAGGATTTTG	AAACTCATCG	TAGTTACCAG	TACCAAGATT	TAACGACTCG	2640
AGGAACAGTT	GAGTTTCGTA	GTGTGTGTAC	ACAGCCACTT	GATAGGACTT	TTGCTTCTGC	2700
AGCTTTTCAC	TTGGGATTAT	TGGTTAATTT	AGACAAGTTA	GAAGCTTACT	TAGAAACAGC	2760
ACCTTTCTTT	AAAGTATTTG	GTTATGATTA	CAAGTCTTTA	AGGAGACAAT	TTTCTAAGAA	2820
AAATCTTACA	GATGAGGAAG	AAACTACGAT	TATTGAATTT	TCCAAAGACT	TACTCCTACT	2880
AGCTGAGGAG	GGACTAGTGG	TGAGAAATAA	GGAAGAAATG	ACCTATTTAC	AGCCTTTGAG	2940
AGAAGAATTG	AGCCTATAAT	TTCTCTTATA	AAGGGAGAAT	TTTCTGAAAA	ATCATGATAT	3000
AATGGACGAG	ACTATAGATA	AAGGATAGAG	AGTAATGACA	TTAGTTTATC	AATCAACGCG	3060
rgatgccaac	AATACAGTAA	CTGCCAGCCA	AGCAATTTTG	CAAGGTTTGG	CGACGGACGG	3120
CGGTTTGTTT	ACACCGGATA	CTTATCCAAA	GGTAGATTTG	AACTTTGACA	AATTGAAAGA	3180
GCTTCTTAC	CAGGAAGTTG	CTAAGCTAGT	TTTGTCAGCA	TTTTTAGATG	ACTTTACAGT	3240
GAGGAGTTG	GACTACTGTA	TCAACAATGC	CTACGATAGC	AAATTTGATA	CTCCAGCTAT	3300
GCACCATTA	GTGAAATTAG	ATGGGCAATA	CAATTTGGAA	CTTTTCCATG	GTTCAACGAT	3360
GCCTTTAAG	GATATGGCCT	TGTCTATTTT	GCCATACTTT	ATGACGACTG	CTGCTAAGAA	3420
CATGGTTTG	GAGAACAAGA	TTGTTATCTT	GACAGCGACA	TCTGGTGACA	CGGGGAAAGC	3480
GCTATGGCG	GGGTTTGCGA	ATGTGCCTGG	TACTGAGATT	ATCGTCTTTT	ATCCAAAGGA	3540

736 TGGTGTCAGC AAGATTCAAG AGTTACAAAT GACCACTCAG ACTGGCGACA ATACTCATGT 3600 TATTGCTATT GATGGTAACT TTGACGATGC GCAAACAAAT GTGAAGCACA TGTTTAACGA 3660 CGTGGCTCTT CGTGAAAAAT TGACTACCAA CAAGTTGCAA TTTTCATCAG CTAACTCTAT 3720 GAACATTGGT CGTCTGGTGC CACAAATTGT TTATTATGTT TATGCTTACG CTCAATTGGT 3780 TAAGACTGGT GAAATTGTAG CTGGTGAAAA GGTTAACTTC ACAGTACCAA CAGGAAACTT 3840 TGGAAATATC TTGGCTGCCT TTTATGCCAA ACAAATTGGT TTGCCAGTTG GTAAATTAAT 3900 CTGTGCTTCA AATGACAACA ATGTTTTGAC AGACTTCTTT AAAACACGTG TCTATGACAA 3960 AAAACGTGAG TTTAAGGTAA CAACCAGCCC ATCTATGGAT ATCTTGGTAT CTTCAAACTT 4020 GGAGCGCTTG ATTTTCCATC TTTTGGGAAA TAATGCTGAA AAGACAACTG AACTTATGAA 4080 TGCCTTGAAC ACGCAAGGAC AATATAAGTT GACAGACTTT GATGCAGAGA TTTTGGACCT 4140 CTTTGCAGCT GAATATGCGA CTGAGGAAGA AACGGCAGCA GAGATCAAGC GTGTTTGTGA 4200 GTTAGATTCT TATATCGAGG ACCCTCATAC AGCTGTTGCT TCAGCAGTTT ATAAAAAATA 4260 CCAATCGGCC ACTGGAGATG TAACTAAGAC AGTGATTGCT TCAACAGCTA GTCCATACAA 4320 GTTCCCAGTA GTTGCAGTAG AAGCTGTAAC TGGAAAAGCA GGTTTAACAG ACTTTGAAGC 4380 CTTGGCTCAA TTACATGAAA TCTCAGGCGT TGCAGTGCCA CCAGCAGTTG ATGGGCTTGA 4440 AATAGCTCCA ATTCGTCACA AGACAACAGT GGCAGCTGCT GACATGCAAG CAGCGGTTGA 4500 GGCTTATTTA GGACTTTAAG ACAGAGGGAG CAAACTCGGT TGGGAAACCA ACTGAGTTTC 4560 TTTTCATCAG GAGGAGAGT TGTTTAAGAA AAATAAAGAC ATTCTTAATA TTGCATTGCC 4620 AGCTATGGGT GAAAACTTTT TGCAGATGCT AATGGGAATG GTGGACAGTT ATTTGGTTGC 4680 TCATTTAGGA TTGATAGCTA TTTCAGGGGT TTCAGTAGCT GGTAATATTA TCACCATTTA 4740 TCAGGCGATT TTCATCGCTC TGGGAGCTGC TATTTCCAGT GTTATTTCAA AAAGCATAGG 4800 GCAGAAAGAC CAGTCGAAGT TGGCCTATCA TGTGACTGAG GCGTTGAAGA TTACCTTACT 4860 ATTAAGTTTC CTTTTAGGAT TTTTGTCCAT CTTCGCTGGG AAAGAGATGA TAGGACTTTT 4920 GGGGACGGAG AGGGATGTAG CTGAGAGTGG TGGACTGTAT CTATCTTTGG TAGGCGGATC 4980 GATTGTTCTC TTAGGTTTAA TGACTAGTCT AGGAGCCTTG ATTCGTGCAA CGCATAATCC 5040 ACGTCTGCCT CTCTATGTTA GTTTTTTATC CAATGCCTTG AATATTCTTT TTTCAAGTCT 5100 AGCTATTTTT GTTCTGGATA TGGGGATAGC TGGTGTTGCT TGGGGGACAA TTGTGTCTCG 5160 TTTGGTTGGT CTTGTGATTT TGTGGTCACA ATTAAAACTG CCTTATGGGA AGCCAACTTT 5220 TGGTTTAGAT AAGGAACTGT TGACCTTGGC TTTACCAGCA GCTGGAGAGC GACTTATGAT 5280 GAGGGCTGGA GATGTAGTGA TCATTGCCTT GGTCGTTTCT TTTGGGACGG AGGCAGTTGC 5340

TGGGAATGCA	ATCGGAGAAG	TCTTGACCCA	GTTTAACTAT	ATGCCTGCCT	TTGGCGTCGC	5400
TACGGCAACG	GTCATGCTGT	TGGCCCGAGC	AGTTGGAGAG	GATGATTGGA	AAAGAGTTGC	5460
TAGTTTGAGT	AAACAAACCT	TTTGGCTTTC	TCTGTTCCTC	ATGTTGCCCC	TGTCCTTTAG	5520
TATATATGTC	TTGGGTGTAC	CATTAACTCA	TCTCTATACG	ACTGATTCTC	TAGCGGTGGA	5580
GGCTAGTGTT	CTAGTGACAC	TGTTTTCACT	ACTTGGGACC	CCTATGACGA	CAGGAACAGT	5640
CATCTATACG	GCAGTCTGGC	AGGGATTAGG	AAATGCACGC	CTCCCTTTTT	ATGCGACAAG	5700
TATAGGAATG	TGGTGTATCC	GCATTGGGAC	AGGATATCTG	ATGGGGATTG	TGCTTGGTTG	5760
GGGCTTGCCT	GGTATTTGGG	CAGGGTCTCT	CTTGGATAAT	GGTTTTCGCT	GGTTATTTCT	5820
ACGCTATCGT	TACCAGCGCT	ATATGAGCTT	GAAAGGATAG	GAAATGCAAA	AAACAGCTTT	5880
TATTTGGGAT	TTAGACGGGA	CTTTATTGGA	CTCTTACGAA	GCGATTTTAT	CAGGGATTGA	5940
GGAGACTTTT	GCTCAGTTTT	CTATTCCTTA	TGATAAGGAG	AAGGTGAGAG	AGTTTATCTT	6000
CAAGTATTCG	GTGCAAGATT	TGCTTGTGCG	GGTGGCAGAA	GATAGAAATC	TGGATGTTGA	6060
GGTGCTAAAT	CAGGTGCGTG	CCCAGAGTCT	GGCTGAGAAG	AATGCTCAGG	TAGTTTTGAT	6120
GCCAGGTGCG	CGTGAGGTGC	TAGCTTGGGC	AGACGAATCA	GGAATTCAGC	AGTTTATATA	6180
TACTCATAAG	GGGAACAACG	CTTTTACCAT	TCTCAAGGAC	TTGGGGGTGG	AATCCTATTT	6240
TACAGAGATT	TTAACCAGTC	AGAGTGGCTT	TGTGCGGAAG	CCAAGTCCAG	AAGCGGCTAC	6300
CTATCTGCTA	GATAAGTATC	AGTTGAATTC	TGATAATACT	TATTATATAG	GGGATCGGAC	6360
TCTGGATGTG	GAATTTGCCC	AGAATAGTGG	GATTCAAAGC	ATCAACTTTT	TAGAGTCTAC	6420
TTATGAAGGG	AATCACAGGA	TTCAAGCGTT	AGCAGATATT	TCCCGTATTT	TTGAGACTAA	6480
GTGATAAAAA	GATTGTGTCA	GTTTTGTGAC	AGAGACCTAA	CAAACTATTT	CAAGTAACCT	6540
AGTTTGTTAC	AAGGAATAGA	CAGTTCTGTT	AAATAGGCCC	GAGAGGGCTT	TTTTTCTACA	6600
TTTTTTGTGT	TATGATAGAC	AGGTACTCAT	TTGAAAGGAA	TTTGAAAGAA	TGAAGAAAAG	6660
AATGTTATTA	GCGTCAACAG	TAGCCTTGTC	ATTTGCCCCA	GTATTGGCAA	CTCAAGCAGA	6720
AGAAGTTCTT	TGGACTGCAC	GTAGTGTTGA	GCAAATCCAA	AACGATTTGA	CTAAAACGGA	6780
CAACAAAACA	AGTTATACCG	TACAGTATGG	TGATACTTTG	AGCACCATTG	CAGAAGCCTT	6840
GGGTGTAGAT	GTCACAGTGC	TTGCGAATCT	GAACAAAATC	ACTAATATGG	ACTTGATTTT	6900
CCCAGAAACT	GTTTTGACAA	CGACTGTCAA	TGAAGCAGAA	GAAGTAACAG	AAGTTGAAAT	6960
CCAAACACCT	CAAGCAGACT	CTAGTGAAGA	AGTGACAACT	GCGACAGCAG	ATTTGACCAC	7020
TAATCAAGTG	ACCGTTGATG	ATCAAACTGT	TCAGGTTGCA	GACCTTTCTC	AACCAATTGC	7080

AGAAGTTACA	AAGACAGTGA	TTGCTTCTGA	738 AGAAGTGGCA	CCATCTACGG	GCACTTCTGT	7140
CCCAGAGGAG	CAAACGACCG	AAACAACTCG	CCCAGTTGAA	GAAGCAACTC	CTCAGGAAAC	7200
GACTCCAGCT	GAGAAGCAGG	AAACACAAGC	AAGCCCTCAA	GCTGCATCAG	CAGTGGAAGT	7260
AACTACAACA	AGTTCAGAAG	CAAAAGAAGT	AGCATCATCA	AATGGAGCTA	CAGCAGCAGT	7320
TTCTACTTAT	CAACCAGAAG	AGACGAAAAT	AATTTCAACA	ACTTACGAGG	CTCCAGCTGC	7380
GCCCGATTAT	GCTGGACTTG	CAGTAGCAAA	ATCTGAAAAT	GCAGGTCTTC	AACCACAAAC	7440
AGCTGCCTTT	AAAGAAGAAA	TTGCTAACTT	GTTTGGCATT	ACATCCTTTA	GTGGTTATCG	7500
TCCAGGAGAC	AGTGGAGATC	ACGGAAAAGG	TTTGGCTATC	GACTTTATGG	TACCAGAACG	7560
TTCAGAATTA	GGGGATAAGA	TTGCGGAATA	TGCTATTCAA	AATATGGCCA	GCCGTGGCAT	7620
TAGTTACATC	ATCTGGAAAC	AACGTTTCTA	TGCTCCATTC	GATAGCAAAT	ATGGGCCAGC	7680
TAACACTTGG	AACCCAATGC	CAGACCGTGG	TAGTGTGACA	GAAAATCACT	ATGATCACGT	7740
TCACGTTTCA	ATGAATGGAT	AAACCCGACT	TGATAACATC	ATTTTGACGA	ATGAGATCTA	7800
GCTTTCGTGA	TGGAAAGCGA	TTCTCGTTCG	TTTTTTTTT	GTCATACTCT	TCGAAAATCT	7860
CTTCAAACCA	CGTCAGTTTT	ATCTGAAACT	TCAAAGCTGT	GCTTTGAGCA	ACCTGCGACT	7920
AGCTTCCTAG	TTTGCTTTTT	GATTTTCATT	GAGTATCAAT	TTGAATGGAA	AATGGAAAGT	7980
TATCATCTTG	TAATGAGTTA	AGCAACATTC	TTGCAATCTA	TTTTACTTTA	TATCACAATT	8040
AATTAGTCAA	ATATTGATAA	ATCAATAAAA	AGAGAGGGGA	AGAAATGCTA	GAGATTCAAG	8100
ATTTACTGTA	TCAACTCCGC	TTGTCTGAGC	AAGCGAGTAC	GCAATTGTTT	GAAAAAAGGC	8160
TTGGGATTAG	TTTGACACGG	TATCAGATTT	TACTGTTTTT	GCTGGAGCAT	TCTCCTTGTA	8220
ACCAAATGGC	GGTTCAGGAG	CGTTTGAAAA	TTGATCAGGC	TGCTTTGACA	CGGCATTTCA	8280
AAATTTTGGA	AACGGAAGGT	TTGGTGGAGC	GTCATCGTAA	TCCTGAAAAT	CAGCGGGAAG	8340
TGTTGGTAGA	GGCTGCGAAG	TATGCCAAGG	AGCAGTTAGT	GGTGAATCCC	CCTCTGCAAC	8400
ATATCAGGGT	TAAGGAAGAG	ATAGAAAGTA	TCTTAACAGA	GTTTGAGAGA	ACAGAACTCA	8460
GCCGTTTATT	AAATAAATTG	GTTTTGGGTA	TTGAAAATAT	AGAAATTTAA	GGAGAAATAG	8520
ATGTCAATTA	TTTTAACAAC	GATCGTTGCT	TTGGAGCATT	TTTACATTTT	TTATTTGGAA	8580
AGTATTGCCA	CGCAATCAGA	TGCGACTAGT	CGTGTATTTA	ATATGGAAAA	GGAAGAATTG	8640
GCTCATCCGT	CAGTAAGTTC	ATTGTTCAAA	AATCAAGGAA	TTTATAAGGC	TCTGCTAGGA	8700
GTCTTTCTCT	TGTATGTCAT	TTATTTCTCA	CAGAATTTAG	AAATTGTGAC	TATTTTTGTC	8760
TTATTTGTGA	TTGGTGCTGC	GACTTACGGC	TCTTTAACAG	CGGATAAAAA	AATTATTTTG	8820
AAACAAGGTG	GATCAGCTAT	TTTGGCCTTG	ATTAGTATTT	TACTCTTTAA	ATACACTTGA	8880

AGGTCGATTC	TAATCTCGCT	AATCCTTTTT	AATCCAGAAT	AAGGGAAATA	TGTTATACTT	8940
GTTTTTAAGA	AAAAAGTCTC	ATTGAATTGG	TTTTGAGGAG	TTAGAAATGA	AAGTATTAGT	9000
GACAGGTTTT	GAGCCCTTTG	GAGGGGAAAA	GGGCAATCCA	GCTTTGGAGG	CCATTAAAGG	9060
TTTACCAGCT	GAAATCCATG	GTGCTGAGGT	CCGTTGGCTA	GAGGTGCCGA	CAGTTTTTCA	9120
CAAATCTGCT	CAAGTATTGG	AAGAAGAGAT	GAATCGTTAT	CAACCTGACT	TTGTCCTTTG	9180
TATTGGGCAA	GCTGGTGGAA	GAACTAGTTT	GACACCTGAA	CGAGTGACCA	TTAATCAAGA	9240
CGATGCATGC	ATTTCTGATA	ACGAAGATAA	TCAACCGATT	GACCGTCCCA	TTCGCCCAGA	9300
TGGTGCTTCG	GCCTACTTTA	GTAGTTTGCC	GATTAAAGCG	ATGGTTCAAG	СТАТАААААА	9360
AGAGGGCTTA	CCGGCCTCTG	TTTCCAATAC	GGCAGGGACT	TTTGTCTGCA	GCCATTTGAT	9420
GTATCAGGCT	CTCTATTTGG	TAGAAAAGAA	ATCTCCATAT	GTTAAGGCAG	GTTTTATGCA	9480
TATTCCTTAT	ATGATGGAAC	AGGTGGTGAA	CAGACCGACT	ACTCCAGCTA	TGAGTTTAGT	9540
GGATATTCGG	CGAGGGATAG	AAGCAGCAAT	CGGCGCTATA	ATAGAACATG	GAGATCAGGA	9600
ACTCAAGTTG	GTAGGCGGAG	AAACTCATTG	ATAGAAAAA	GCTTGAGGGG	AAAAACCTTC	9660
AAGCTTTTGG	ACGTTTTCGG	GCCAATACTG	CTCGGTAAAA	CATAATTTTA	GTGCATTGGA	9720
TATAAGGTAG	GAGTGAAAAA	CTAGCAATGC	CAAAGGTAAT	CCAATTGAGG	AAGTACCAAG	9780
GAAGAAGCTG	TAAATCTAGG	ACAAAGTGCT	GGAACTTGTA	GCCCTTCATA	AAGGAACGGC	9840
TAGTTTTTAG	GATTCGTCTT	GGTGGGACCT	GTCCTAGGTC	TAGACTATAA	CAGAGAAGAA	9900
ATTCCACCTG	TGAATAGGCA	TAATACTGTG	GAATATAGAG	GATATTTCCT	ACAATGATCA	9960
AGATGAGACT	TGCAAGAAAG	TAGAGTCCAA	AGACCATGAG	GAAACGCTCG	GTTTCAACTG	10020
ATGAGAGATC	TAGATTTGGA	AACTCAGGAT	GTAGGGTGAC	GAATTTTTTG	GCTAAAAAGC	10080
TACTATAAAA	GAGGAGGTAA	ATCCCAAGTA	AATTAGGGAT	ACTCCATAAA	AAGAGATAGA	10140
AACGTTTGAG	AAGTAGGGTC	AAAAAGGTTT	GAGAAAAGCG	CTCCTCATCA	AAGAGAGCTA	10200
GGCTGTTTTT	TACAGATGGC	TCCGTTTTAG	AATCTTTCAT	GAGTGTCAGT	GTTGCATAGA	10260
CGGAACTGGT	CAAAAGAATA	GTCCCGATAA	AGGAGACTAG	TAGAGGAAAG	AGGTAGGTTT	10320
GAAGTATTTG	GCCAAGTATG	CTGAAAAATG	GCTGTTCTAA	AACAGTCCCG	TGGATCCGAG	10380
ATAAGGGATT	AAGAAAACCA	GATAAGATGA	CCAGCATACT	GGGAAGGATA	TAGAGGAGAA	10440
AGAGACGGGG	GGTGTCAGCC	TGAAAATGTT	TTGACTCCTG	ACGAATTGTT	TTTAAATCAA	10500
TTTTTGGATA	GTTCATTCTC	TTATTATACC	ATAGTTCTTA	TACATAGTTC	GTGACAGTTC	10560
CTACTTTTTT	TGATAAAATC	ATACAGTGTG	TCCTTGGGCA	CACTGTATGA	ACTGGGACTG	10620

			740			
TCTTTCCCAG	CTTCGGAGGT	AAAAAATGTC		ATCAAATATC	GTTTGATTAA	10680
GAAAGAAAAA	CACACAGGAG	CTCGTCTGGG	AGAAATCATC	ACTCCCCACG	GTACCTTTCC	10740
GACACCTATG	TTTATGCCAG	TTGGGACACA	AGCCACTGTC	AAAACTCAGT	CACCTGAAGA	10800
ATTGAAGGAG	ATGGGTTCGG	GAATTATCCT	ATCAAACACC	TATCATCTCT	GGCTTCGCCC	10860
TGGAGATGAA	CTCATTGCAC	GCGCTGGTGG	TCTCCACAAG	TTCATGAATT	GGGACCAGCC	10920
TATCTTGACA	GATAGTGGTG	GTTTTCAGGT	ТТАТТСТТТА	GCAGATAGCC	GTAATATCAC	10980
AGAAGAAGGA	GTAACCTTTA	AAAATCATCT	AAATGGTTCT	AAGATGTTCC	TATCCCCAGA	11040
AAAAGCCATC	TCTATTCAGA	ATAATCTGGG	TTCAGACATC	ATGATGTCCT	TTGATGAATG	11100
TCCTCAGTTT	TATCAACCTT	ATGACTACGT	TAAGAAATCG	ATCGAGCGTA	CCAGCCGTTG	11160
GGCTGAGCGT	GGTTTGAAGG	CTCACCGTCG	TCCACATGAC	CAAGGTTTGT	TTGGAATTGT	11220
GCAAGGTGCA	GGATTTGAAG	ACCTTCGCCG	CCAATCAGCT	CATGATCTTG	TCAGCATGGA	11280
TTTCTCAGGC	TACTCTATCG	GTGGTTTGGC	AGTGGGAGAA	ACCCATGAAG	AGATGAATGC	11340
GGTCTTGGAC	TTTACAACTC	AACTGCTGCC	TGAAAATAAA	CCTCGTTATC	TGATGGGTGT	11400
GGGAGCGCCA	GATAGCTTGA	TCGATGGGGT	CATTCGTGGG	GTGGATATGT	TTGACTGTGT	11460
CTTACCGACT	CGAATTGCTC	GTAACGGGAC	TTGTATGACC	AGTCAAGGAC	GTTTGGTTGT	11520
GAAAAATGCC	CAGTTTGCTG	AGGACTTTAC	GCCACTGGAT	CCTGAGTGTG	ATTGCTACAC	11580
ATGTAATAAC	TATACACGCG	CTTACCTTCG	TCACCTGCTC	AAGGCTGATG	AAACCTTTGG	11640
FATCCGCTTG	ACTAGCTACC	ACAATCTTTA	CTTCTTGCTT	AACCTGATGA	AGCAAGTGCG	11700
ACAAGCCATC	ATGGATGACA	ATCTCTTGGA	ATTCCGTGAG	TATTTTGTGG	AAAAATATGG	11760
CTATAATAAG	TCAGGACGTA	ATTTCTAAAA	TGGAATTGAT	ТААААААТ	CCTAAGTTTT	11820
CTCTTAGGAT	TTTTCTTCTT	TTTTTGATAG	AATAAAGTGT	ACAATGAAAG	GAAGAATAAA	11880
CTCGTATGCG	CATTAAATGG	TTTTCCTCGA	TTAGG			11915

(2) INFORMATION FOR SEQ ID NO: 97:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9069 base pairs
 (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

GAGAGGGCAA CAGTTCTATC GCTTCAAATT TTTTCTTGGT TTGCAGATAT TCAAGAATCG 60 GGAGTTTTTC TATAGTATTC GGCAGATTTA TTACAGCCAA GCATCTCAAA AATACGGACA 120

GCATCCTCCA	TCTTTTTCTG	GCCTTCCTTG	ACTCTACCTT	GCTTGCTATC	AAGGAGACCT	180
TCTGCCCACA	GATAAACAAT	TCGGAAATAG	GTCTCATTTT	CCTTGTAGAA	ATGCTCTTCG	240
ATAACACGTT	ТААААТААТА	GGCATTGGTA	AATTCTTCAC	ACTCAATACT	AGCTAAAAAG	300
CCATTCAATA	GTATAGTATG	AAAAAGGTTT	CGATTGCCAG	ACATTTCCAT	TAGAAAATCA	360
GATTTACGTA	CCATTTCTCG	TACATATCTA	GTAAAAAGAG	AAACAGATAA	AAATGGAGAA	420
CTGACTGAAA	ATAAATTGAG	TTCATAGATT	CCCCAGATCT	CGGTAGAAAA	САААТААТСА	480
TGAAGGACTT	TTCCTTCCTC	TGCTGTTAAG	TCTACCCTTT	CATCTATGCT	CTTCATATAA	540
GACTTGATAA	TAATGGCATT	TAGAATATGT	TTCTGTTTGT	TGTGAGAATG	GGCATGCTTT	600
TATACTCCCT	GCGATATAAG	TCCTCAAGAG	GTGCTATATT	CTTTGGTTCC	AAGACATCTG	660
PAATTTCTTT	TCTCAACTCA	GAATCTGTAT	CATACTGGAA	ACCTCTTGCC	AGAAAGAGGA	720
PCTCCTCCAC	ACTGGCAGAT	ATATTTTCCA	GAGCAAATAG	AAACTTTTCC	ACCGAAAGCT	780
CACTCTGACC	TGTTTCAAAA	CGGGACAACA	TAGACGGCGA	AAATTGTCCT	CCGGTTGCTT	840
GTCTCAGTGA	GATATTTCTT	GACTCTCGTA	ATTGTCTAAA	GACTTTTCCA	ATCTGCTCCA	900
PAGACTTCCC	CTTGATTCCG	TATTTTCTTC	ATTTTATCAT	ATTTTTCAGA	AAATTCATCA	960
AAAACTTGCC	AAATTGTCAG	AATTATGAGA	AAATAGAGGA	TATTTATCAC	GTGGAGGGAC	1020
rgctatgaga	GACGATATCA	AAATCAATGA	CCGTGCTTTG	GCCTTGCAAG	ACCAAATTAT	1080
CGAAAAACTA	GAGAAAGTTT	TTGATACAGA	TGTGGAATTG	GATGTTTACA	ATCTAGGTCT	1140
GATTTATGAA	ATCAATCTGG	ATGAAACGGG	GCTCTGCAAG	ATTGTCATGA	CCTTCACCGA	1200
PACTGCCTGT	GATTGCGCCG	AAAGCCTGCC	TATTGAAATC	GTGGCAGGTC	TGAAACAAAT	1260
CGAGGGTATC	AAAGATATCA	AGGTTGAAGT	TACCTGGTCG	CCTGCTTGGA	AAATCACACG	1320
AATCAGTCGC	TATGGCCGTA	TTGCCCTTGG	ACTACCACCT	CGTTAAGCAG	ACCAATCACT	1380
TTAAAGATG	AAAATCAAAG	GGCAAACTAG	AAAACTAGCC	GCAGGTTGCT	CAAAACACTG	1440
TTTTGAAGTT	ATGGATAGAA	CTGACGAAGT	CAGCTCAAAA	CACTGTTTTG	AGGTTGTGGA	1500
TAGAACTGAC	GAAGTCAgCT	CAAAACACTG	TTTTGAGGTT	GTGGATAGAA	CTGACGAAGT	1560
CAGCCCAAAA	CACTGTTTTG	AGGTTGTGGA	TAGAACTGAC	GAAGTCAGTA	ACCATACCTA	1620
CGGCAAGGCG	ACGTTGACGT	GATTTGAAGA	GATTTTCGAG	TATGAGTTTA	TTTTTTACCT	1680
GACTTGTCCA	TATTCCAGAA	GTCTGTCACG	GCTCCGCGTG	AAGCAGATGA	TACGATGTGG	1740
GCATATTTAC	CGAGGACACC	ACGGCTGTAA	AGTGGTGGCA	AGGTTGTTTC	TGCCTTGCGT	1800
TTTCAAGTT	CTTCTTCGGA	TACGGCCATA	GAAATTTCTT	TGGTATCTTG	GTCAACCGTA	1860

			7.40			
ACGATATCGC	CGGTACGGAG	ATAGGCAATT	742 GGTCCACCAT	CCTGAGCTTC	AGGAGCGATA	1920
TGTCCAACAA	CCAGACCATA	AGTACCACCA	GAGAAACGTC	CGTCCGTCAA	GAGGGCCACC	1980
TTATCTCCCT	GACCTTTACC	AACAATCATT	GAAGAAAGTG	ATAGCATCTC	AGGCATACCA	2040
GGACCACCTT	TAGGTCCAAC	AAAACGAACA	ACGACTACAT	CGCCATCAAC	GATTTCATCT	2100
GTCAGAACGG	CCTGAATCGC	ATCTTCTTCT	GAGTCAAAGA	CCTTAGCTGG	CCCAACGTGA	2160
CGACGCACTT	TAACACCTGA	TACCTTGGCA	ACTGCACCGT	CAGGAGCAAG	GTTCCCGTTC	2220
AAGATGATAA	GCGGACCATC	CGCACGTTTT	GGATTTTCAA	GTGGCATGAT	AACTTTTTGG	2280
CCTGGAGTCA	AGTCTGCAAA	GTCAGCCAAG	TTTTCAGCTA	CAGTCTTACC	AGTACATGTG	2340
ATGCGATCTC	CGTGAAGGAA	ACCATTTGCC	AACAAATACT	TCATAACCGC	AGGGACACCA	2400
CCGACTTCGT	AGAGGTCTTG	GAAGACATAC	TGACCAGATG	GTTTCAAGTC	GGCCAAGTGA	2460
GGCACACGTT	CTTGAATCGT	ATTGAAGTCC	TCAAGTGACA	AGTCAACATT	TGCGGCATGG	2520
GCAATGGCGA	GCAAGTGAAG	AGTGGCGTTT	GTAGAACCAC	CGAGAGCCAT	CGTTACAGTG	2580
ATAGCATCTT	CAAAGGCTTC	ACGAGTCAAG	ATATCTGATG	GTTTGAGACC	AAGTTCCAAC	2640
ATCTTAACAA	CAGCACGTCC	TGCTGCTTCG	ATATCTTCTT	TCTTATCAGC	TGATTCAGCT	2700
GGGTGAGAGG	ATGACCCTGG	CAAACTCATC	CCTAGAACTT	CGATAGCAGT	TGCCATGGTA	2760
TTAGCAGTAT	ACATACCACC	ACAACCACCA	GGGCCAGGGC	AGGCATTACA	TTCAAGACGT	2820
TTCACGTCCT	CAGCTGTCAT	GTCACCGTGG	TTCCATTTTC	CGATACCTTC	AAAGACAGAA	2880
ACCAAGTCGA	TATCTTTACC	ATCAAGATTT	CCCGGTGCAA	TAGTTCCACC	ATAGGCGAAA	2940
ATAGCTGGGA	TATCCATATT	AGCAATAGCA	ATCATAGATC	CAGGCATGTT	CTTGTCACAG	3000
CCACCGATAG	CGACGAAGGC	ATCCACGTTG	TGACCACTCA	TAGCCGCCTC	GATGGAGTCC	3060
GCGATGATGT	CACGAGATGT	TAGAGAGAAA	CGCATACCAG	GCGTTCCCAT	AGCGATCCCG	3120
TCCGCTACGG	TAATGGTTCC	AAACTGTACA	GGCCAAGCGC	CTGCAGATTT	GACACCTTCT	3180
TTAGCCAGTT	TCCCGAAATC	ATGCAAGTGA	ATGTTACATG	GTGTATTTTC	CGCCCAAGTC	3240
GAAATCACTC	CCACAATCGA	TGTTTCAAAG	TCCTTATCTG	TCATACCAGT	CGCACGAAGC	3300
ATAGCACGGT	TAGGTGATTT	AACCATGCTG	TCATAAATGC	TACTGCGGTG	ACGTTTATCT	3360
AATTCAGTCA	TCTTATCCCT	CCCATTTCAG	TTTTTACTAT	TATAGCACAA	TTTTCGCATG	3420
AAGAACAGAA	TAAAATTCTT	GAATTTTCAG	AAAATTCTAT	ACACATGTGA	AATATTTAAA	3480
ATTAAAAACA	ACAAAGCGGA	TTAGTGCACT	TTCTGATGAC	CAGAATATGC	TTTTTAATCC	3540
GCTTTCTTTA	AATAACGTAC	TGTAATTTTT	ACAGAAATTC	TTTCAAATAA	GTGTATTTAA	3600
CATCTATCTT	GCATTATAAA	TTTCTAGAAC	CTTCTCTTTT	ATATTCGATT	CACTCAAACC	3660

ATACTCATTA	AGAAGATAAT	CCATTTTCCC	TACTTGACCG	AATCTTTCTT	GAACACCCAT	3720
CCGATGAATT	TTTGTTATTC	CATCATCAGA	GAATAATTCA	CATAAAGCAC	TGCCAATTCC	3780
ACCTATCTGA	TTGTGGTTTT	CTACAGTAAA	TATAGTTTTT	CCACTTAACA	TTGTTTTTAT	3840
CTGTTCTGGT	ATCGGTTTGA	ТТСТАААТАА	ATCTATCACA	CCTACTGAAT	AACCTAATTT	3900
AGACAGTTCA	TCTGCAACTC	GAATACTTGG	AGCAACCATT	ATGCCAGAAG	CAACGATTAC	3960
AAGATCTTCA	CCATGCCTTA	ACTCAATGTA	GCCTTTAGAA	AAATCTTCTC	CACCTTGATA	4020
CACAGGAACT	GGAGCTTTTC	TAATTGTTCG	AATATATTT	AGTCCTTTTA	AGTCTAATGT	4080
CTGGTTCAAT	ATTTCACGAA	ATTGGATATC	ATCAGTTGCT	TCGAAAATGA	TTGATTTAGG	4140
AATTAAACGT	AACAATCCAA	TTTCTTCAAA	TGGCATATGT	GTTCCACCAT	TCATCTCTGC	4200
CGTTACTCCT	GCATCTGATC	CAATCACAGT	GGCATCCAAT	TGTGCGTATC	CAAGAGAAAT	4260
AAATAATTGA	TCAAATACTC	TTCGTGAAGC	AAAAGGACCA	AATGTATGAA	GATAAGGTCT	4320
AAACCCCTGA	ATAGACAAGC	CTGCTGCAAG	GCCGACCATT	TCTGCTTCCA	TAATCCCAAC	4380
ATTCACATAA	CGGTCTCCAA	AGTCCTTTTC	AAGATTATTA	GTAGCCATCG	AACTTGACAA	4440
ATCGGCTTCT	AAGACTACTA	TATCAGAATC	ACTTTGATTA	GCCTCTAAAA	GGAAGTCTCT	4500
ATATACATGC	CGTAATTCTT	TCGTACTTCT	CATCATTCTG	TTTCCTCCAA	TTCCTGACTT	4560
AATCTTTCTA	CAACTGAAGT	TAACATTTGT	TTCTCCTCTA	CAGTAGGGCG	AAGATGATGA	4620
TTGGATTTCA	TTTCTTCCAG	CTCTTGAACC	CCTTGACCTT	TAATAGTATC	TAATACAATG	4680
CACTTAGGTG	ATGAATTATT	TGACTGTTTT	AATTGGACAA	TCCCTTCATA	AATTTCTCTA	4740
ATATCTGAAC	CCTTGACCCT	AATGGATTCA	AATCCAAATG	CTGAAAATTT	TTCTACGAAA	4800
TCACCTGGAT	TACAAATATC	CTTTGTAAAA	CCATCTAATT	GTTTTTTGTT	ATCATCAACA	4860
AATACAATTA	AGTTGGATAA	CTGTTGATGA	GAAGCAAACT	GTATAGCCTC	CCAACATTGT	4920
CCCTCATTTA	ACTCACCATC	TCCAACAATA	GCGTAAGTAT	AAAAGGGACT	CTTTCTTATT	4980
CTCTGACCAT	ATGCAAGTCC	AGTTGCAACA	CTAATTCCTT	GTCCTAAAGA	GCCCGTTGTC	5040
ATATCTATGC	CTGGCGTTAG	ATTTCTATCA	GGATGAGACG	GTAATTTGGT	TCCATTTGTA	5100
TTTAAAGAAT	ATAAGAATTC	TTTGTCAAAG	AAACCATTCA	AATAGAGTGT	ACTGTATAGA	5160
GCTGGTCCTC	CGTGACCTTT	TGATAATATG	AAATAATCTC	TATCTCGTGC	TGCAAATATT	5220
TCTGGAGTCA	TTGGCATTAT	TTCACCATAA	AGCACCGCTA	AAACTTCTAC	GATAGACAGA	5280
CTTCCTCCGT	AATGTCCGAA	TCCAAGATGA	TTCAATGTTC	TAAGAGTATT	TAATCGGATG	5340
TTAGTCGCAA	АТТТТСТТАА	CCCATCTTCT	CTATTTTTAC	TTAAAATCAT	CCCTTATTCC	5400

744 TCCGTTGCAG ATGGCTTTTT AATAAAGGAT ACTCCAAACA TAACTGCTAG AATAAGAACA 5460 AGACCAATCA CAATGCCTGC TTGTGAGCCA AATTGATTTA ACATTCCTAA AATAATTCCT 5520 GATAGACCAA AATCTGCATC TGAGAAAGTT GATCCTTGGA AACCAAGTCC TCCCAAAACT 5580 GGCATTAAAA AGACTGGAAG AAAACTGATT AAAATACCTT GTAAAAAATGC TCCAATAGTG 5640 GCTCCACGAA CACCACCAGA TGCATTCCCA ATGACACCTG CAGTCGCTCC ACAGAAGAAA 5700 TGAGGCACAA CACCTGGTAA GATAACAACC GTTCCTGAAG CAATCATAAT TACCATACTT 5760 ACTAAACCAC CAACAAAACT AGAGATAAAT CCAATTAGAA CTGCATTGGG TGCATAAGTA 5820 TAAACAATCG GACAATCCAA AGCAGGTTTT GAATTAGGTA CAAGACGCTC TGAAATACCT 5880 TTAAAGGCTG GAACAATTTC GCCCAAAATA AGGCGAACAC CTGCTAAAAT AACAAATACC 5940 CCTGCTGCAA ATTGACCTGC TAATTGTAAA GCATAAACTA GACCACTTGT ACCACTACTG 6000 ATTTCTTTTT CTATATATTC TGACCCTGCA AAGATAGCTA CAATAATGTA AATAACTGCC 6060 ATGGATAAAG TAATACTAAC AGTACTATCA CGTAAAAAAG CTAAACTCTT TGGAAATTTA 6120 ATGTCCTCTG TTGATTTTGA TTTGTCACCG ATAAGGCTAC CAGTAAAACC ACTCAACCAA 6180 TATCCCAAAG AACTGAAATG ACCTAAAGCT ACCTTGTCAT TTCCAGTTAA TTGAACCATA 6240 TATTTTTGCA CAAATGCTGG GGAAATACTC ATAATAATAC CGAGTGCTAA TCCTCCTAGT 6300 AAGATGAGAG GCAAGCTAGT AAAGCCAGCA ACTGATAAAA TGACCGCAAT CATACATGCC 6360 ATATATAGAG TGTGGTGCCC TGTTAAAAAA ATATATTTAA ATCGAGTAAA ACGAGCGATT 6420 AAGATATTGA ACACCATGCC TGCAAACATA ATCATTGCAG TAGCTGAGCC ATATGTTGTT 6480 AAAGCTACAG CTACAATTGC TTCATTATTC GGCACAACGC CAGATAAATG AAAAGCATGC 6540 TCAAACATGG TACCAAATGG ATTTAAAGAA TTTTGTACAA TTCCTGCACC ACCAGATACA 6600 ACTAAGAAAC CAACAAAGGT CTTAATTCCA CCTTTAATAA TATCAGGTAA TTTCTTCTTC 6660 TGAAGAACTA ATCCTAAGAT TGCAATTAAA GCTACTAAAA TAGCTGGTGT ACTAACAATA 6720 TCCAATATGA ACTTCATCAT GACGCTAGCC TCCTATATAA GTCCTTTTTC TTCACAAAGT 6780 TTAGTAATTA ATTCTCGTAG TTCATCCATA TCAATAATAC TATTTAAGAT ACGAACATCT 6840 CCAAGATGAC TAGCTGAATC AGCTAGATCA CGACCAACAA TCCAAATATC AGCTGCATTT 6900 GGATCTGCTC CACCTAAATC ATAATGTTCA ACTTCTACAT CCGAAACATT CAAATCACTC 6960 AATACAGATT CAATATTCAT CTGTACCATA AAACTTGAAC CTAATCCTGA ACCACAAGCT 7020 GTACCAATTT TTAACATTAT CTAATCCTCC TGTTTAATTA TCATTTTAAT GTCATCATAG 7080 TTTTTTGATG ATATTAAAGT TTGAACATGA TTTTTATCTC TTAAAATTGT TGTTAAATGT 7140 GACAAAGCCT TTAAATGACT CTCATTATCA ATGGCTGCAA TACAAATCAA CAATCTTACC 7200

TCTTGTTCTG	GATTATCCAA	TAAATAAATC	GGTTCTTCCA	AAACTAACAT	TGACATTCCT	7260
ATTTCATTCA	CACCTTCATC	TGGCCGAGCG	TGAGGAATTG	CTACTCCCTT	CCCTAAATTA	7320
ATAAAAGGTC	CAAACTCTTC	TACTTTTTGA	ATCATTGCCT	CAGGGTAGTT	CTCAGTTATC	7380
TTATCTTGAT	CCAAAAGCGG	TTTAGCTGCT	AAACGAATCG	CCTCCTTCCA	TCCTAATTTT	7440
TGCGAACTAA	CCTGATAGGT	TTCTTTGGTA	ATAAGTTGTT	CTAGCACTGG	TACAATTTCC	7500
TTTCTATCAT	TTTTTTGGTA	AAGATAATTC	TTTAACGCCA	ATCTTAATTC	CAATTCTTGT	7560
GTAATAATTC	CATATCTTTT	GACAATATTC	AGGATTTGTT	CAATCTCAAA	ATCTCCATAC	7620
TCTAAATTCG	GAAAATCTTT	TAACACTAGT	TCTACTAGTT	GTATTGCTTG	CTCTTCAGTC	7680
ATCATAACCG	AAACTAGATA	ATTTGGCTTT	TCTGTCTCCA	CCTTTATGGT	AGAAAAAACC	7740
ATATCATAGT	CACTACTAGC	TTTCACCTGT	AAATCATCAA	TCTTTGAGGT	TCCTATAAAC	7800
TCAATTTGAG	GAAATAATGC	TAATAGATTC	TCTTTTAACA	TCAATGAAGA	ACTAACACCA	7860
TTAGGACAAA	TGATTGCTGC	TTTATACCAT	TTTTGAGGCA	AAGTATCTGC	TTTCTTTAAA	7920
TAACCTCCGA	AATGGATAAC	AAAATATGCT	GTTTCACTAT	CAGGTATGGG	ATTGTCAATA	7980
GCGTCCATCA	AGGGCATCAA	AGAATCTTTG	ACTAATTCAA	ATAAATCAGG	ATAATGTTCT	8040
TTAACATGCA	ATACATATTC	ATTTGAACTA	GGTAGGCCGA	ACTTTAATCT	ATAGTAAGCC	8100
GGTATAAGGT	GGCGGCGAAG	ATTTTCTCTC	AATCCTTCCC	TTTGTTTAAA	ATGTAACAAA	8160
GAAATATCTT	CCATTCTACT	TATAATAGCC	TCTGTTAATT	GATTAAAGTA	AACCGGAGCA	8220
ACATCTACTT	CACCTTCAAA	GCAACTTGAT	AATAAAACGG	TGATATAGCG	ATAATCATCC	8280
TCAGAAAACA	CCGTATCTAT	AATTCCCAAA	TCAACCACTG	TATCCAATAA	AATAGTGGTT	8340
ATATCTTGAA	TAACAGGAGA	TACTAATGTC	TCTGAAAGAC	ATACTCTTTC	AACATCCCTT	8400
TGATACCTAC	ACAGAATGAA	TACTAAACCG	AAAAGGTAAA	CTTTTAATTG	АТТААСААТА	8460
GGTACTAGCT	GTAGCTTCTC	ATAATAATCT	TTAACTACCT	GATCAATCAA	ATCATAAGTT	8520
AATGAATACC	CCCAACTGGA	TAAAACATAA	TCCAAACCCC	AAATCCCTAT	GGAGGATTCC	8580
AGCAACTCAC	TAACCATTTG	AAAAGCTAAG	CGGTGCTTAT	TCCACTCTGA	ACCGTGTAAA	8640
GTATAACCTT	TTGCTCTACT	GTACCCTAGC	TCCAAATCAT	TATCTAACAT	AATCTTTCTT	8700
AATGATTGAA	TATCAGATAA	GGTTGTATTC	TTACTTACTT	TCAAAAAGTC	TTGGTAATGA	8760
CTATTCGATA	таааатстаа	TCGGCAAAAA	GTGTAAAGAT	AGATTAAAGC	TAAGCGAGTC	8820
GACTTTGGTA	AAACCAATTC	ATCCGACTTA	ATAATATCTG	TCAAAGACTG	CTTCGTACGA	8880
TTTGATAAAC	TATAGCGACC	TTGCTTTTTA	TCCAGCACTA	TCCCTTTATT	AGCTAGATAA	8940

GGCACTAAAT AATCTATTCC TTCTTTGACT TCCTTTA	
AATTCATATA ACGATAGCTC ACAATGATCC ATCAAAG	TCA TCAAAATAAC TAGTGCTCTA 9060
TAATCAAAC	9069

(2) INFORMATION FOR SEQ ID NO: 98:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8654 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

CGAGACAACA	AGATGAAGAA	AAATTTGCCC	TATCGTTTGT	GGCGCTTGCA	AGTGTAGCAC	60
TTCTTGCAGC	CTGTGGAGAA	GTGAAGTCTG	GAGCAGTCAA	CACTGCTGGT	AACTCAGTAG	120
AGGAAAAGAC	AATTAAAATC	GGGTTTAACT	TTGAAGAATC	AGGTTCTTTA	GCTGCATACG	180
GAACAGCTGA	ACAAAAAGGT	GCCCAATTGG	CTGTTGATGA	AATCAATGCC	GCAGTGGTAT	240
CGATGGAAAA	CAAATCGAAG	TAGTCGATAA	AGATAATAAG	TCTGAAACAG	CTGAGGCTGC	300
TTCAGTTACA	ACTAACCTTG	TAACCCAATC	TAAAGTATCA	GCAGTCGTAG	GACCTGCGAC	360
ATCTGGTGCG	ACTGCAGCTG	CGGTAGCGAA	CGCTACAAAA	GCAGGTGTTC	CATTGATCTC	420
ACCAAGTGCG	ACTCAAGATG	GATTGACTAA	AGGTCAAGAT	TACCTCTTTA	TTGGAACTTT	480
CCAAGATAGC	TTCCAAGGAA	AAATTATCTC	AAACTATGTT	TCTGAAAAAT	TAAATGCTAA	540
GAAAGTTGTT	CTTTACACTG	ACAATGCCAG	TGACTATGCT	AAAGGGATTG	CAAAATCTTT	600
CCGCGAGTCA	TACAAGGGTG	AAATCGTTGC	AGATGAAACT	TTCGTAGCAG	GTGACACAGA	660
CTTCCAAGCA	GCCCTTACAA	AAATGAAAGG	GAAAGACTTT	GATGCTATCG	TTGTTCCTGG	720
TTACTATAAT	GAGGCTGGTA	AAATTGTAAA	CCAAGCGCGT	GGCATGGGAA	TTGACAAACC	780
AATCGTTGGT	GGTGATGGAT	TCAACGGTGA	GGAGTTTGTA	CAACAAGCAA	CTGCTGAAAA	840
AGCATCAAAC	ATCTACTTTA	TCTCAGGCTT	СТСААСТАСТ	GTAGAAGTTT	CAGCTAAAGC	900
TAAAGCCTTC	CTTGACGCTT	ACCGTGCTAA	GTACAATGAA	GAGCCTTCAA	CATTTGCAGC	960
CTTGGCTTAT	GATTCAGTTC	ACCTTGTAGC	AAACGCAGCA	AAAGGTGCTA	AAAATTCAGG	1020
TGAAATCAAG	AATAACCTTG	СТААААСААА	AGATTTTGAA	GGTGTAACTG	GTCAAACAAG	1080
CTTCGATGCA	GACCACAACA	CAGTCAAAAC	TGCTTACATG	ATGACCATGA	ACAATGGTAA	1140
AGTTGAAGCA	GCAGAAGTTG	ТААААССАТА	ATAGAAAAAT	GTTGAAATAG	GGAATGAGCC	1200
TTTGACTCAC	TCCCTGTTTC	GATATTTAAT	ACTCTTCGAA	AATCTCTTCA	AACTGCGTCA	1260

ACGTCGCCTT	GGATTATATA	TGTGACTGAC	TTCGTCAGTC	TTATCTACAA	CCTCAAAGCA	1320
GTGCTTTGAG	CAACCTGCGG	CTAGTTTCCT	AGTTTGCTCT	TTGATTTTCA	TTGAGTATAA	1380
GAACCTATCA	AAAAGTGAGG	GAAAACCCTC	GGAATTATAA	ATAGAAAGAG	TGAATCTTAT	1440
GCTCCAACAA	CTCGTAAATG	GTTTGATTCT	AGGTAGTGTT	TACGCGCTGT	TAGCCCTAGG	1500
ATATACCATG	GTTTACGGAA	TTATCAAGCT	CATCAACTTC	GCCCATGGTG	АТАТТТАТАТ	1560
GATGGGAGCC	TTTATCGGTT	ATTTCTTGAT	CAATTCTTTC	CAAATGAATT	TCTTTGTAGC	1620
GCTTATTGTA	GCTATGCTAG	CGACAGCTAT	TCTTGGTGTC	GTGATTGAGT	TTCTTGCTTA	1680
CCGACCTTTG	CGCCACTCTA	CTCGTATTGC	TGTTTTGATT	ACGGCTATTG	GGGTTTCTTT	1740
CCTATTGGAG	TATGGAATGG	TCTATCTGGT	TGGTGCCAAT	ACCCGTGCCT	TCCCTCAAGC	1800
GATTCAAACA	GTTCGATATG	ATTTGGGACC	AATTAGCTTA	ACAAATGTGC	AGTTAATGAT	1860
TTTGGCCATT	TCCTTGATTT	TGATGATTTT	GTTACAAGTC	ATTGTCCAAA	AGACTAAGAT	1920
GGGGAAAGCC	ATGCGTGCAG	TATCAGTAGA	TAGCGACGCG	GCGCAATTGA	TGGGGATCAA	1980
TGTAAACCGT	ACGATTAGCT	TTACCTTCGC	TTTGGGTTCT	GCTCTTGCGG	GTGCGGCTGG	2040
TGTTCTGATT	GCTCTTTATT	ATAACTCTCT	TGAGCCTTTG	ATGGGGGTTA	CTCCAGGTCT	2100
TAAATCTTTC	GTTGCCGCAG	TACTTGGTGG	TATCGGAATT	ATTCCTGGTG	CGGCTCTTGG	2160
TGGCTTTGTG	ATTGGTCTAT	TGGAAACCTT	TGCGACTGCC	TTTGGGATGT	CAGATTTCCG	2220
TGATGCCATT	GTTTATGGAA	TCTTGTTGTT	GATCTTGATT	GTCCGCCCAG	CTGGTATCCT	2280
TGGTAAGAAT	GTGAAAGAGA	AGGTGTAAAC	GATGAAGGAA	AATTTAAAAG	ТТААТАТТСТ	2340
ATGGTTACTC	CTTTTGTTAG	CTGGCTATAG	CTTGATTAGT	GTACTGGTTT	CAGTCGGAGT	2400
ACTTAATCTA	TTCTATGTAC	AGATTTTACA	ACAAATTGGA	ATTAATATTA	TTTTGGCTGT	2460
TGGTCTCAAC	TTAATCGTTG	GTTTTTCAGG	ACAATTTTCA	CTTGGTCATG	CTGGTTTCAT	2520
GGCGATTGGT	GCCTATGCAG	CAGCTATTAT	TGGTTCTAAA	TCACCAACCT	ACGGTGCCTT	2580
CTTTGGAGCT	ATGCTTGTAG	GGGCTTTGCT	TTCAGGAGCA	GTTGCCTTAC	TTGTCGGCAT	2640
TCCAACCTTG	CGCTTGAAGG	GGGACTATCT	TGCGGTAGCA	ACTCTGGGTG	TTTCTGAAAT	2700
TATCCGTATC	TTTATCATCA	ATGGTGGAAG	CCTTACAAAT	GGTGCGGCAG	GTATCTTAGG	2760
GATTCCTAAC	TTTACAACTT	GGCAAATGGT	TTACTTCTTT	GTCGTGATTA	CAACCATTGC	2820
AACCTTGAAC	TTCTTGCGTA	GCCCAATTGG	TCGTTCAACC	CTCTCTGTTC	GTGAAGATGA	2880
AATCGCTGCT	GAGTCAGTTG	GGGTTAATAC	GACTAAAATT	AAAATCATCG	CTTTTGTCTT	2940
TGGTGCCATT	ACTGCAAGTA	TTGCTGGGTC	ACTTCAGGCA	GGATTTATCG	GGTCTGTTGT	3000

			748			
ACCGAAAGAT	TACACCTTCA	TCAACTCAAT		ATTATTGTTG	TATTTGGTGG	3060
ACTCGGTTCC	ATTACAGGTG	CGATTGTTTC	GGCTATTGTT	CTGGGAATTT	TGAATATGCT	3120
TCTCCAAGAT	GTTGCTAGTG	TGCGTATGAT	TATTTACGCT	TTGGCCTTGG	TATTGGTAAT	3180
GATTTTCAGA	CCAGGTGGAC	TCCTTGGAAC	ATGGGAACTG	AGCCTATCAC	GTTTCTTTAA	3240
AAAATCTAAG	AAGGAGGAAC	AAAACTAATG	GCATTACTTG	AAGTAAAACA	GTTAACCAAA	3300
CATTTTGGTG	GTCTAACAGC	TGTTGGAGAT	GTGACTCTTG	AATTGAACGA	AGGGGAACTG	3360
GTTGGATTAA	TCGGTCCAAA	CGGAGCTGGG	AAAACCACCC	TTTTCAACCT	TTTGACCGGT	3420
GTTTATGAAC	CAAGCGAGGG	AACAGTAACC	CTAGATGGTC	ACCTTTTGAA	TGGGAAATCA	3480
CCTTATAAGA	TTGCCTCTTT	GGGACTTGGA	CGTACTTTCC	AAAATATCCG	TCTCTTTAAA	3540
GATTTAACAG	TTTTAGATAA	TGTTTTGATT	GCTTTTGGAA	ACCATCACAA	ACAGCATGTT	3600
TTTACTAGTT	TCTTACGCTT	ACCAGCTTTT	TACAAGAGTG	AAAAAGAATT	AAAGGCTAAA	3660
GCTTTGGAAT	TGTTGAAAAT	CTTTGATTTA	GATGGTGATG	CAGAGACTCT	TGCTAAAAAT	3720
CTTTCCTACG	GACAACAACG	TCGTTTGGAA	ATTGTTCGTG	CCCTTGCTAC	GGAACCTAAA	3780
ATTCTCTTCT	TAGATGAACC	AGCAGCAGGT	ATGAACCCAC	AGGAAACAGC	CGAATTGACT	3840
GAGTTAATTC	GTCGTATCAA	AGATGAGTTT	AAGATTACAA	TCATGTTGAT	TGAACACGAT	3900
ATGAATCTGG	TCATGGAAGT	AACAGAACGT	ATCTACGTAC	TTGAATATGG	CCGTTTAATC	3960
GCTCAAGGAA	CTCCAGACGA	AATTAAGACC	AATAAACGCG	TTATCGAAGC	TTATCTAGGA	4020
GGTGAAGCCT	AATGTCTATG	TTAAAAGTTG	AAAATCTTTC	TGTGCATTAC	GGTATGATCC	4080
AAGCAGTTCG	TGATGTAAGC	TTTGAAGTTA	ATGAAGGAGA	AGTTGTTTCC	CTTATCGGTG	4140
CCAACGGTGC	AGGTAAGACA	ACTATTCTTC	GCACCTTGTC	AGGTTTGGTT	CGACCAAGTT	4200
CAGGAAAGAT	TGAATTTTTA	GGTCAAGAAA	TCCAAAAAAT	GCCAGCTCAG	AAAATCGTGG	4260
CAAGTGGTCT	TTCACAAGTT	CCAGAAGGAC	GCCACGTCTT	TCCTGGCTTG	ACTGTTATGG	4320
AAAATCTTGA	AATGGGAGCT	TTCTTAAAGA	AAAATCGTGA	AGAAAATCAA	GCTAACTTGA	4380
AGAAGGTTTT	CTCACGCTTT	CCTCGTCTTG	AAGAACGGAA	GAACCAAGAT	GCAGCCACTC	4440
TTTCAGGGGG	GGAACAACAA	ATGCTTGCCA	TGGGACGCGC	CCTCATGTCA	ACACCAAAAC	4500
TTCTTCTTTT	AGATGAACCA	TCAATGGGAC	TTGCCCCAAT	CTTTATCCAA	GAAATTTTTG	4560
ATATCATTCA	AGATATTCAG	AAGCAAGGAA	CAACGGTCCT	CTTGATTGAA	CAAAATGCCA	4620
ATAAAGCACT	TGCAATCTCT	GACCGAGGAT	ATGTACTGGA	AACAGGGAGA	ATCGTCCTAT	4680
CAGGAACAGG	AAAAGAACTC	GCTTCATCAG	AAGAAGTCAG	AAAAGCATAT	CTAGGTGGCT	4740
AAAACAATCC	AGTGGATTGT	TTTAGTCGGC	AGATGGAGAT	TACGAAGTAA	ТСАТСААТАТ	4800